VHF FM HANDHELD TRANSCEIVER

DJ-F1T/E DJ-S1T/E

UHF FM HANDHELD TRANSCEIVER

DJ-F4T/E DJ-S4T/E

Service Manual

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ALINCO ELECTRONICS INC.

■ SPECIFICATIONS

■ GENERAL

Frequency Coverage F1T & S1T: TX: 144.000-147.995 MHz

RX: 138.000-173.995 MHz

(AM Mode 118 — 136 MHz after Modification)

F1E & S1E: TX: 144.000-145.995 MHz

RX: 144,000-145.995 MHz

F4T & S4T: TX: 440.000-449.995 MHz

RX: 410.000-470.000 MHz

F4E & S4E: TX: 430.000-440.000 MHz

RX: 430.000-440.000 MHz

Memory Channel Channel Steps

40 Channels + 1 Call Channel 5, 10, 12.5, 15, 20, and 25 kHz F1T/E & S1T/E: 600 kHz

Standard Shift Frequency

F11/E & \$11/E: 600 kHz F4T & \$4T: 5 MHz F4E & \$4E: 7.6 MHz

(Resettable by 5 kHz [Minimum] between 0 and 15.995 MHz)

Emission Type
Antenna Impedance
Operating Voltage

F3 50 Ω rated 9V 2 kΩ

Microphone Impedance Speaker Impedance

 8Ω

Dimensions

110 (H) \times 53 (W) \times 37 (D) mm (4.3 \times 2.1 \times 1.5 inch)

/with Standard Battery Pack or Standard Dry Cell Battery Case

\without Projections

Weight

F1T/E & F4T/E Approx. 375 g (13.2 oz) with Standard Battery Pack

S1T/E & S4T/E Approx. 370 g (13 oz)

with Standard Dry Cell Battery Case

Ground

Negative

■ TRANSMITTER

Output Power

with Battery Pack EBP-16N (Standard for F1T/E & F4T/E)

Hi	Mid	Low
2 W (F1T/E & S1T/E) 1.5 W (F4T/E & S4T/E)	1 W	0.1 W

with Optional Battery Pack EBP-18N or at 13V

Hi	Mid	Low
5 W	1 W	0.1 W

with Dry Cell Battery Pack at 9V

Hi	Mid	Low
2.5 W (F1T/E & S1T/E) 2 W (F4T/E & S4T/E)	1 W	0.1 W

Modulation System Max. Freq. Deviation Spurious Emission Microphone Variable Reactance Frequency Modulation

±5 kHz

Less than 60 dB below carrier Built-in Electret Condenser

■ RECEIVER

Receiving System

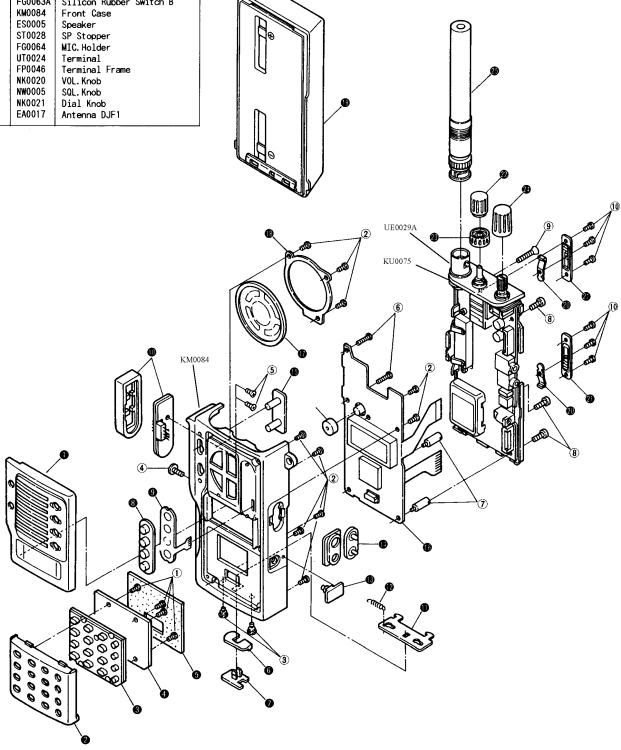
Sensitivity Intermediate Frequencies Double-conversion superheterodyne 12 dB SINAD less than $-15~\text{dB}\mu$

1st 23.05 MHz 2nd 455 kHz

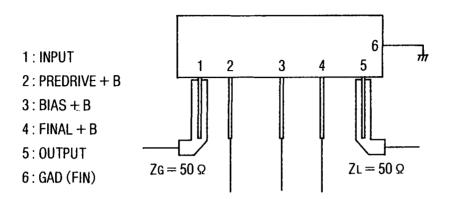
■ DJ-F1T/E CABINET PARTS LOCATION

	Mec	hanical Parts
1	KM0121	Front Panel, F1T
	KM0081	Front panel DJ-Sl
	KM0078	Front panel DJ-S1T
2	KM0114	Key Pad Panel
2 3 4	FG0069	Rubber Contact
4	UP0210	DJP3 key Board
5	FG0088	Anti-Water Drop Mat C
6 7	NB0041	Lock Knob
	NB0040	Release Knob
8	FG0061A	Silicon Rubber Switch A
9	UP0198	SW P. O. Board
10	FG0058	PTT Rubber
11	FM0047	Release Plate
12	SC0005	Spring Coil
13	FG0066	DC Rubber
14	FG0065	MIC Rubber
15	FG0063A	Silicon Rubber Switch B
16	KM0084	Front Case
17	ES0005	Speaker
18	ST0028	SP Stopper
19	FG0064	MIC. Holder
20	UT0024	Terminal
21	FP0046	Terminal Frame
22	NK0020	VOL. Knob
23	NW0005	SQL. Knob
24	NK0021	Dial Knob
25	EA0017	Antenna DJF1

		Screw
1	AF0015	0# Screw 2+3 BC
2	AF0005	0# Screw 2+3.5 N
3	SA0009	Supporter For Release Switch
4	AA0039	Screw 2+6 BC
5	AA0037	Screw 2+4
6	AF0017	0# Screw 2+8 N
7	SA0008	Supporter For Lock
8	AA0036	Screw 2+5 N
9	AA0038	Screw(flat) 2+16N
10	AF0016	0# Screw 2+2 BC

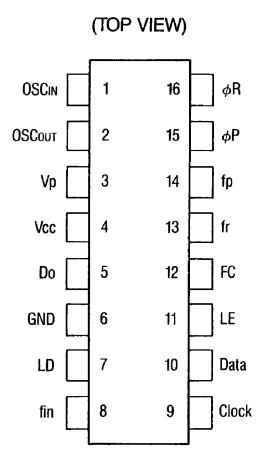


■M67748L1 (MAIN UNIT IC-201)



ITEM	SYMBOL	Тс	CONDITION		RATING	UNIT	
IIEM	STMBUL	(°C)	CONDITION	MIN.	TYPE	MAX.	UNII
Output power	Ро	25	$ \begin{array}{l} f = 135\text{-}150 MHz, \ Pin = 20 mW, \\ Vcc = 12.5 V, \ Vbb = 5 V, \\ Zg = ZI = 50 \Omega \end{array} $	7			w
Total efficiency	ηΤ	25	(ditto)	45			%
2nd spurious	2fo	25	(ditto)			-20	dB
3rd spurious	3fo	25	(ditto)			- 25	dB
Input SWR	Pin	25	(ditto)			2.5	_
Output SWR	Pout	25	(ditto)		1.5		_

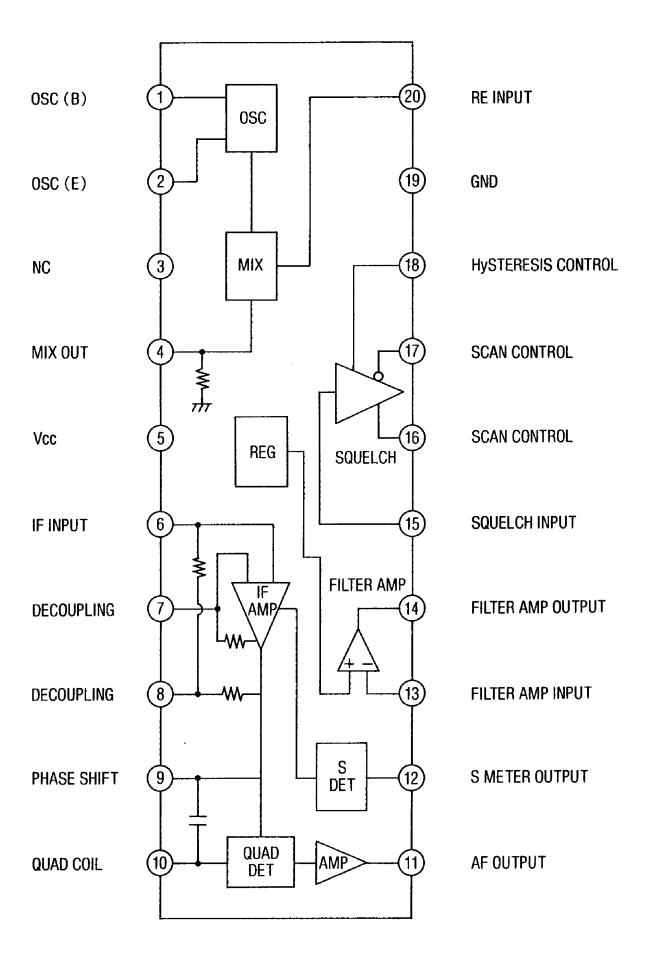
■ MB1504L (MAIN UNIT IC-202)



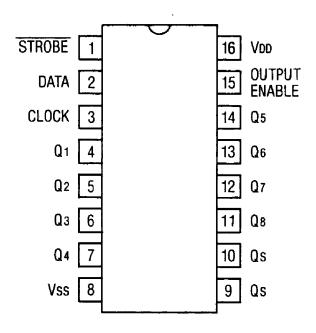
Pin Function Table

NO.	SYMBOL	1/0	RATING		
1	OSCIN	ı	Cristal appillator input		
2	OSCout	0	Cristal oscillator input		
3	Vρ	_	Voltage for charge-pump		
4	Vcc	_	Voltage for IC		
5	Do	0	Charge-pump output		
16	GND		Ground		
7	LD	0	Lock detector output		
8	fin	_	Frequency input		
9	Clock	ı	Serial interface (clock input)		
10	Data	_	Serial interface data input		
11	LE	1	Serial interface load enable input		
12	FC	0	Do changer output		
13	fr	0	Reference Frequency output		
14	fр	0	Programmable counter output		
15	φP	0	Charge numn output		
16	φR	0	Charge-pump output		

■ TK10487MT (MAIN UNIT IC-203)

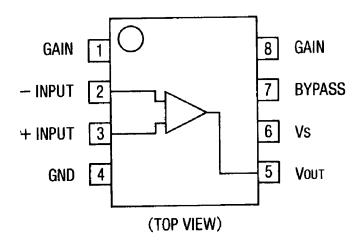


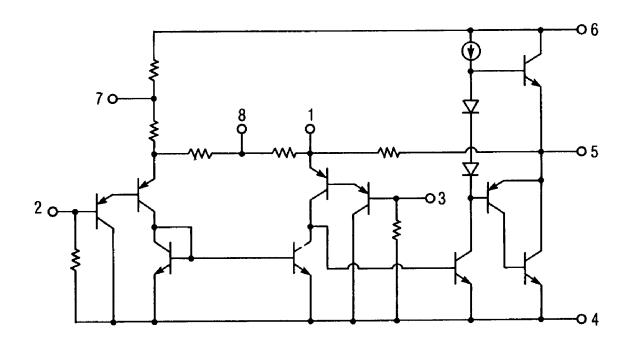
■ *µ* PD4094BG (MAIN UNIT IC-204)



CLOCK	OUTPUT	STROBE	DATA	PARALLEI	OUTPUT	SERIES	OUTPUT
CLOCK	ENABLE	SINOBE	DAIA	Q1	Qn	Qs*	Q's
	L	×	×	High Impedance	High Impedance	D7	NO CHANGE
	L	×	×	High Impedance	High Impedance	NO CHANGE	D8
	Н	L**	×	NO CHANGE	NO CHANGE	D7	NO CHANGE
	Н	Н	L	L	Qn-1	D7	NO CHANGE
	Н	н	Ι	н	Qn-1	D7	NO CHANGE
	Н	н	н	NO CHANGE	NO CHANGE	NO CHANGE	D8

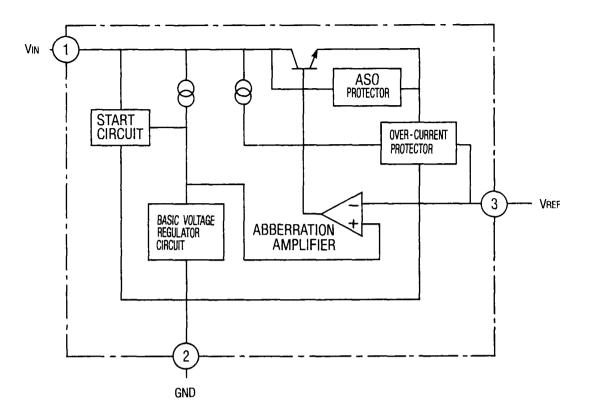
■ NJM386M (MAIN UNIT IC-205)

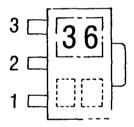




ITEM	CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply voltage		Vs	4	_	12	٧
Reactive current	VIN = 0V	lo	_	4	8	mΑ
Output voltage	RL=8Ω, THD=10%	Роит	250	325		mW
Output voltage	Vs = 9V, RL = 16Ω, THD=10%	Роит	_	500	_	mW
Voltage gain	f=1kHz	Av	_	26	_	dB
Voltage gain	f=1kHz,	A۷		46	_	dB
Band width		BW	_	300		kHz
Total high distorsion	RL = 8Ω , POUT = 125 mW f = 1 kHz,	THD	_	0.2	_	%
Power supply rejection	f=1kHz,	PSRR		50	_	dB
Input register		Rin		50	_	ΚΩ
Input bias supply		İBIAS	—	250	_	nΑ

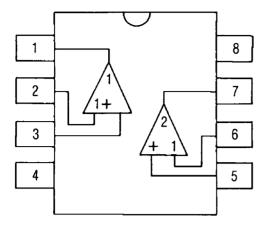
■ M5236ML (MAIN UNIT IC-206)





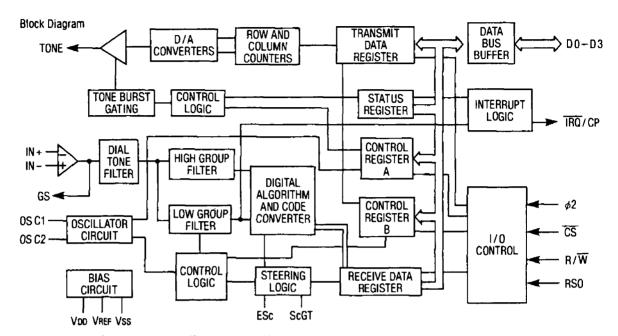
ITEM	SYMBOL	CONDITION		RATING	3	UNIT
	STIMBOE CONDITION		MIN.	TYP.	MAX.	ONIT
Input voltage	VIN		3.5		36	V
Output voltage	Vo		1.5	_	33	v
Voltage difference	V _I -O		_	0.2	0.5	v
Standard voltage	VREF		1.20	1.26	1.32	٧
Input regulation	Reg-in	Vi =15 ~ 20V	_	0.02	0.1	%/V
Loaded regulation	Reg-L	IL =10 ~ 200mA	_	0.02	0.1	%
Bias current	lв		_	1.3	2.3	mA
Output voltage temp. coefficient	TCVo	Ta = 0 ~ +75°C	_	0.01		%/°C
Ripple rejection ratio	RR	$f=120Hz$, $\sqrt{r}=300mVrms$ VI-0=3V		68		dB
Output noise voltage	VNo	Δf = 20Hz ~ 100kHz	_	33	_	μVrms

■M5218 (MAIN UNIT IC-207)



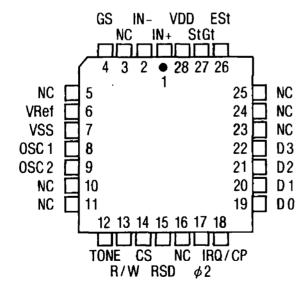
ITEM	CVMDC	SYMBOL CONDITION		UNIT		
ITEM	STMBOL	CONDITION	MIN.	TYP.	MAX.	UNII
I. current circuit	lcc	Vin = 0	_	3.0	6.0	mA
V. input offset	Vio	Rs≦10KΩ	_	0.5	6.0	mV
I. input offset	lio		_	5	200	nA
I. input bias	le		_	_	500	nA
R. input	Rin		0.3	5	_	MΩ
G. open voltage	Gvo	$RL \ge 2K\Omega$, $Vo = \pm 10V$	86	110		dВ
	Vом	RL <u>≥</u> 10KΩ	± 12	±14	_	٧
V. max. output		RL≧2KΩ	± 10	± 13	_	٧
Common mode range	Vсм		±12	±14	_	٧
Common mode rejection	CMRR	Rs ≦ 10KΩ	70	90	_	dB
C. voltage rejection ratio	SVRR	Rs ≦ 10KΩ	_	30	150	μV/V
Power consumption	Pd		_	90	180	mW
Bandwidth	fτ		_	7		MHz
Through rate	SR	Gv = 0dB, $R_L = 2K\Omega$	_	2.2	_	V/μs
Input scale noise voltage	Vni	Rs =1KΩ, BW: 10Hz ~ 30kHz	_	2.0	_	μVrms

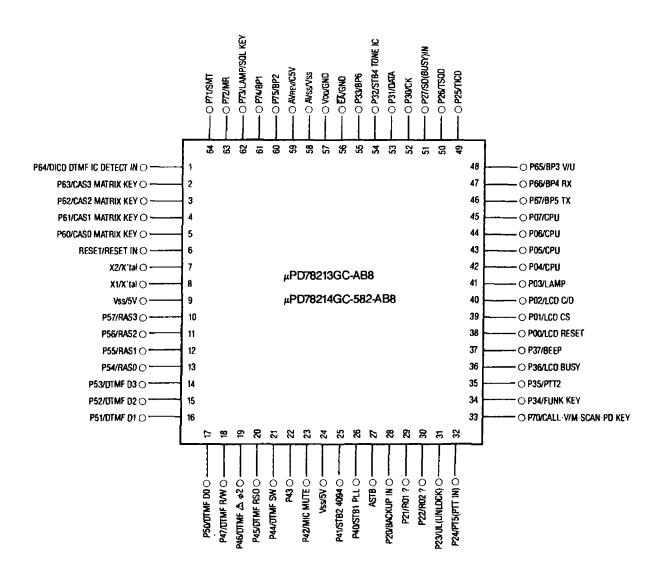
■ CM8880 (DTMF UNIT IC-601)



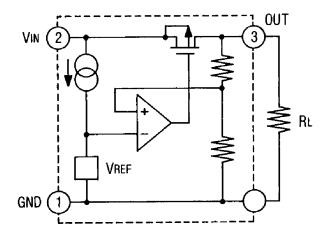
This is advance information and specifications are subject to change without notice.

■TM8880 (DTMF UNIT IC-602)





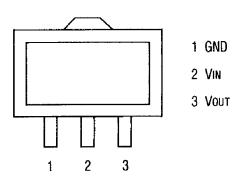
■S-81250HG (CPU UNIT IC-03)



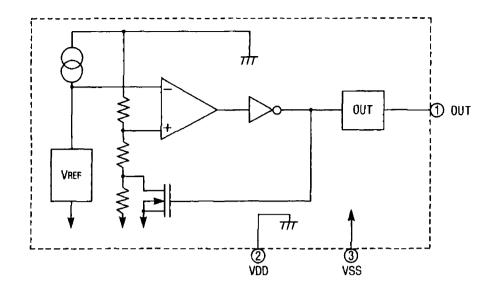
Electric Characteristics (+5V output/high-tention proof)

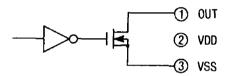
(Unless specified; Ta = 25°C)

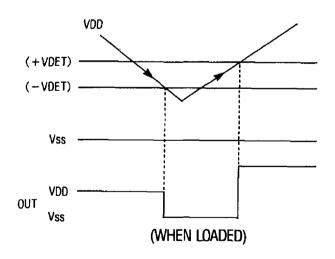
ITCM	07/4001	CONDITION		RATING		UNIT
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Output voltage	Vout	Vin = +7V, $Iout = 10mA$	4.75	5.00	5.25	٧
Output current	IOUT	Vin = +7V	40	50	–	mA
Load stability	ΔVουτ	1mA≤IouT≤40mA VIN = +7V	_	40	80	mV
In/output voltage difference	Vdif	IOUT = 1mA	_	30	_	mV
Current consumption	Iss	Vin = +7V, No load	T -	3.0	7.0	μΑ
Input stability	ΔVOUT ΔVIN-VOUT	+6V ≦ VIN ≦ +10V	_	0.1	_	%/V
Input voltage	Vin		Γ-	_	12	V
Temperature coefficient of output voltage	ΔVουτ ΔΤα	Iouт =10mA - 20°C ≤Ta ≤70°C	_	±0.625	_	mV/°C

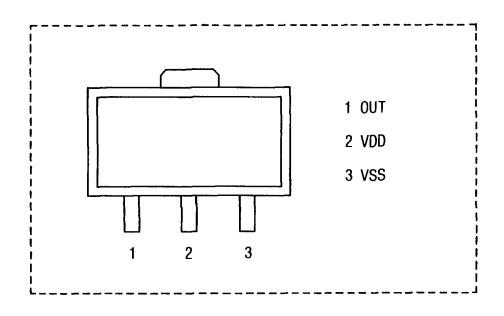


■S-8054HN (CPU UNIT IC-04)









ITEM	SYMBOL	CONDITION	UNIT
Supply voltage range	VDD-VSS	12.0	
Input voltage	Vin	Vss-0.3~VDD+0.3	v
Output voltage	Vout	Vss - 0.3 ~ 12	
Output current	lout	50	mA
Power-loss allowance	Pd	200	mW
Operation temp.	Topr	-20~+70	°C
Storage temp.	Tstg	-40~+125	,U
Solder	Tsolder	260°C 10 sec	λ.

■DJ-F1T/E DJ-S1T/E PARTS LIST

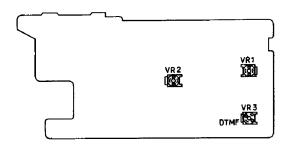
101 2014 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
April Ci. JAMPS Ci.		C	PU UNIT						
12.2 Marie S. C. Principal Access Age Section Supple Marie Section Supple Marie Section Supple Marie Section Supple Suppl			TO 00700500 007	R31					
10.2				R32	RK3050				
March Marc						,		1300021	100 0000 000 7
No.			-	1					
1	104	XAUTU6	10, 5-8034HN-08-11				C101	CH3035	Chip C. CM105W5R102K
	Δ1	VIIIOOO	Transistar DTC114TKT06						
1.00000 1.000000 1.000000000000000					1				Chip C, CM105W5R102K
14 17 17 17 17 17 17 17									Chip C, TMC1V104TR
Strong							C105		Chip C, CM105CH470K
Translator, 280328A11881. State					1		C106	CU3035	Chip C, CM105W5R102K
7. 7.10994 Transistor, 28A157611088 HALL MISSES PLUZY Chip R. MRR0522HJ470 Chip R. MR0522HJ470 Chip R. MRR0522HJ470 Chip R. MRR0522HJ470 Chip R. MR0522HJ470 Chip			1		1	, ,			
Dec 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000				1					
Discription			ļ		1				1
March Marc	D1	XL0025	Diode, SLE-0022M	1		Chip R, MCR03EZHJ473		1	
Mail				R47	RK3046	Chip R, MCR03EZHJ472			
Dec				R48					
C C C C C C C C C C			-		1	- ·			' '
CISSAT COLORS C	D6	XD0129	D10de, 1553181111						
CS0225 Chip C CTU-SHY334ITA Chip C CHIPS CANDERSON Chip C CHIPS CHIPS Chip C Chip	CI	0112047	Chin C CHALDEWEDING				1		
COURSES COUNTS									
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CS CS CS CS CS CS CS CS		l l					C122	CU3059	Chip C, CM105Y5V104Z
CS0053 Chip C, MODIA/FGR80 R64 R80309 Chip C, MERGEZHU70 Chip C, MODISCHIRD R64 R64 R65 R64 R65								DV0000	01 : 0 40000057114404
CS0050	C9	CS0053	Chip C, TMC0J476TRD		1				-
C13 C30057 C14 C100002/25TRA C14 C100002/25TRA C14 C100002/25TRA C14 C100002/25TRA C14 C100002/25TRA C14 C100002/25TRA C16 C100002/25TRA C16 C100002/25TRA C16 C100002/25TRA C16 C100002/25TRA C100002/25TRA C17 C100002/25TRA C100002/25T			Chip C, TMC1A475TRB						1 ' '
C3 C3 C3 C3 C3 C3 C3 C3									
C3 C3 C3 C3 C3 C3 C3 C3				L1	QC0048	Chip L, NL322522T100K			
C15				L2	QC0048				1
C17 CU3035 Chip C, GM1988R102 VR1 RH0060 VR2 WR323H28RM473 R110 RM3025 Chip C, GM1988R103 VR2 RH0060 VR2 WR323H28RM473 R110 RM3034 Chip C, GM1988R103 VR3 RM3026 Chip C, GM1988R103 VR3 RM3026 Chip C, GM1988R103 VR3 RM323H28RM473 R110 RM3034 Chip C, GM1988R103 VR3 RM3026 Chip C, GM1988R103 VR3 V				L4	QC0010	Chip L, MLF321611E100M			
Colorative Col				l					
C18				1	1		1		1 ' '
Color Colo			'	1			R110	RK3034	Chip R, MCR03EZHJ471
C21 C13074 C13072 C13074 C13072 C1010 C1010 C1010 C1010 C21 C13074 C1010 C1010 C21 C13072 C1010 C21 C1010 C21 C1010 C21 C1010 C21 C1010 C21 C1010 C21 C			1 * .	VR3	KH0060	VR, MVR32HXBRN473	R111	RK3026	Chip R, MCR03EZHJ101
C23 C13047 Cnip C, MIDSGRINOS ED0002 LTHRUM BATT CPU Insulate sheet CPU Insulat				V003	V00001	V*+-1	R112	RK3062	Chip R, MCR03EZHJ104
C24 C13023 Chip C, Qui DeSchillork T20044 CPU Insulate sheet R115 R83095 R13023 Chip C, Qui DeSchillork C10 C1			, -	X001	1		1		
C25 Cl3023 Chip C, CM10SCM101K Cl25 Cl3023 Chip C, CM10SCM101K Cl25 Cl3023 Chip C, CM10SCM101K Cl25 Cl3023 Chip C, CM10SCM5153K25V(Eonly) SW2 UU0013 Switch SKHUMB Tape R116 RK30362 R118 RK3050 R18 RK3058 Chip R, MCR03E2HJ03 Connector, DF9A-9S-IV (22) Connector, DF9A-9S-IV (22) Connector, DF9A-1S-IV (22) Connect			1						
March ColloffwithSyz5y(Eonly) SWI U00013	C24				120044	or or moutate state	1		
Clip Clip Chip	C25	CU3023	Chip C, CM105CH101K	SW1	UU0013	Switch SKHUAB Tape			
RI	C26	CU3063	Chip C, CM105W5R153K25V(Eonly)	1	1		1	1 .	
RX RX RX RX RX RX RX RX							KIIO	NASUSU	CITED IS, MCNUSEZHOTUS
R305B			1 ' '				-		
R4				CN1	UE0129	Connector, DF9A-9S-1V(22)		N	MAIN UNI I
R5									
RF				1			1	1	
R7				CN4	UE0135	Connector, 52207-0590			
R8					F. 0015	100 01 51	1C203	XA0144	1C, 1K-1048/MIR
R11				LCD	1		10204	V40010	TC PDA00ABC=T1
R12 RK3001 Chip R, MCR03EZHJ000 (E only) Chip R, MCR03EZHJ003 (T only) UP0199 UP0									1
Rt3									
R13					30001)		1
RI3		RK3102	Chip R, MCR03EZHJ203 (Tonly)		UP0199	DJF1			
R15		RK3102					Q201	XT0097	Transistor, 2SC4393TE85L
R15									
R16 RK3102 Chip R, MCR03EZHJ203 (T only) RK3050 Chip R, MCR03EZHJ000 (E only) R18 RK3102 Chip R, MCR03EZHJ03 (T only) R19 RK3058 Chip R, MCR03EZHJ473 (T only) R20 RK3058 R20 RK3050 Chip R, MCR03EZHJ473 (T only) R21 RK3058 R22 RK3050 R21 RK3058 R22 RK3050 R22 RK3050 Chip R, MCR03EZHJ473 (T only) R22 RK3058 R23 RK3022 Chip R, MCR03EZHJ473 (T only) R24 RK3058 R34								Transistor, 2SC3356T1BR25	
R17 RK3001 Chip R, MCR03EZHJ000 (E only) R18 RK3102 Chip R, MCR03EZHJ03 (T only) R19 RK3050 Chip R, MCR03EZHJ203 (T only) R19 RK3050 Chip R, MCR03EZHJ303 (E only) R19 RK3050 Chip R, MCR03EZHJ303 (E only) R10 RX3058 Chip R, MCR03EZHJ37 (T only) R10 RX3058 Chip R, MCR03EZHJ473 (T only) R10 RX1030 R21 RK3050 Chip R, MCR03EZHJ473 (T only) R10 RX1030 R22 RK3067 Chip R, MCR03EZHJ473 (T only) R23 RK3050 Chip R, MCR03EZHJ274 RX3058 Chip R, MCR03EZHJ102 R25 RK3038 Chip R, MCR03EZHJ102 R26 RK3058 Chip R, MCR03EZHJ373 L101 QC0003 R26 RX3058 Chip R, MCR03EZHJ373 L101 QC0003 R27 RX3067 Chip R, MCR03EZHJ373 L101 QC0003 R28 RX3056 Chip R, MCR03EZHJ373 L102 QC0090 R28 RX3056 Chip R, MCR03EZHJ373 L102 QC0090 R28 RX3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M RX3058 Transistor, 2SC4081T106R Transistor, 2SC4081T106				1					
R17 RK3050 Chip R, MCR03EZHJ103 (T only) R18 RK3102 Chip R, MCR03EZHJ203 (T only) R19 RK3058 Chip R, MCR03EZHJ473 (T only) R20 RK3050 Chip R, MCR03EZHJ473 (T only) R21 RK3050 Chip R, MCR03EZHJ473 (T only) R21 RK3050 Chip R, MCR03EZHJ473 (T only) R22 RK3067 Chip R, MCR03EZHJ473 (T only) R23 RK3022 Chip R, MCR03EZHJ473 (T only) R24 RK3050 Chip R, MCR03EZHJ473 (T only) R25 RK3038 Chip R, MCR03EZHJ473 (T only) R26 RK3058 Chip R, MCR03EZHJ473 (T only) R27 RK3050 Chip R, MCR03EZHJ473 (T only) R28 RK3056 Chip R, MCR03EZHJ473 RC305 RC				W2	MRCL02AA	#02Red			
R18 RK3102 Chip R, MCR03EZHJ203 (Tonly) RK3058 Chip R, MCR03EZHJ473 Chip R, MCR03EZHJ473 (Tonly) R20 RK3058 Chip R, MCR03EZHJ473 (Tonly) Chip R, MCR03EZHJ474 (Tonly)			1 1 1 1 1 1 1	L	L				
R19					W	CO UNIT		1	
R20					· ·				
R20 RK3058 Chip R, McR03EZHJ473 (T only) Q102 XT0030 Transistor, 2CS3356T1 Q211 XT0030 Transistor, 2SA1576T106R R21 RK3058 Chip R, McR03EZHJ473 (T only) Q103 XT0090 Transistor, 2SC2411KT146 Q212 XT0030 Transistor, 2SC3356T1BR25 RX3058 Chip R, McR03EZHJ473 (T only) D101 XD0132 Diode, 1SV215TPH4 Q214 XT0095 Transistor, 2SC4081T106R RX21 RK3039 Chip R, McR03EZHJ470 D102 XD0132 Diode, 1SV215TPH4 Q214 XT0095 Transistor, 2SC4081T106R RX24 RK3039 Chip R, McR03EZHJ122 D103 XD0131 Diode, 1SV214TPH4 Q215 XT0095 Transistor, 2SC4081T106R RX25 RK3038 Chip R, McR03EZHJ102 D103 XD0131 Diode, 1SV214TPH4 Q216 XT0095 Transistor, 2SC4081T106R Transistor, 2SC4081T106R Chip R, McR03EZHJ473 L101 Qc0003 Chip R, McR03EZHJ473 L102 Qc0090 Chip L, MLF321606A-4R7M Q218 XT0088 Transistor, 2SC4081T106R Transistor, 2SC4081T106R Transistor, 2SC4081T106R Chip L, MLF321611E-100M Q218 XT0095 Transistor, 2SC4081T106R Transistor, 2SC4081T106R Transistor, 2SC4081T106R Transistor, 2SC4081T106R Chip L, MLF321611E-100M Q218 XT0095 Transistor, 2SC4081T106R Transistor, 2SC4081T10				Q101	XT0030	Transistor, 2CS3356T1	1		
R21 RK3050 Chip R, MCR03EZHJ103 (E only) R22 RK3067 Chip R, MCR03EZHJ274 R23 RK3022 Chip R, MCR03EZHJ274 RC3050 R24 RK3039 Chip R, MCR03EZHJ274 R25 RK3039 Chip R, MCR03EZHJ102 R26 RK3038 Chip R, MCR03EZHJ102 R27 RK3038 Chip R, MCR03EZHJ102 R28 RK3056 Chip R, MCR03EZHJ333 L103 R28 RK3056 R28 RK3056 Chip R, MCR03EZHJ333 L104 R29 RK3062 Chip R, MCR03EZHJ104 L104 RA0077 R29 RK3062 Chip R, MCR03EZHJ104 L105 RA0077 R28 RK3056 Chip R, MCR03EZHJ104 L104 RA0077 R29 RK3062 Chip R, MCR03EZHJ104 L105 RA0077 R29 RK3062 Chip R, MCR03EZHJ104 L105 RA0077 R29 RK3062 Chip R, MCR03EZHJ104 L105 RA0077 R20 RA007					4				
R21 RK3058 Chip R MCR03EZHJ473 (T only) R22 RK3067 Chip R, MCR03EZHJ474 D102 XD0132 Diode, 1SV215TPH4							1		
R22 RK3067 Chip R, MCR03EZHJ274 D101 XD0132 Diode, 1SV215TPH4 0214 XT0095 Transistor, 2SC4081T106R R23 RK3032 Chip R, MCR03EZHJ470 D102 XD0132 Diode, 1SV215TPH4 Q215 XT0095 Transistor, 2SC4081T106R R24 RK3038 Chip R, MCR03EZHJ122 D103 XD0131 Diode, 1SV214TPH4 Q216 XT0095 Transistor, 2SC4081T106R R26 RK3058 Chip R, MCR03EZHJ473 L101 QC0003 Chip L, MLF321606A-1R0M Q217 XT0095 Transistor, 2SC4081T106R R27 RK3067 Chip R, MCR03EZHJ274 L102 QC0090 Chip L, MLF321606A-4R7M Q218 XT0088 Transistor, 2SC4081T106R R28 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q219 XT0095 Transistor, 2SC4081T106R R29 RK3065 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q219 XT0095 Transistor, DTC114YUT106 Transistor, 2SC4081T106R R29 RK3065 Chip R, MCR03EZ		1					1		
R23 RK3022 Chip R, MCR03EZHJ470 D102 XD0132 Diode, 1SV215TPH4 Q215 XT0095 Transistor, 2SC4081T106R R24 RK3039 Chip R, MCR03EZHJ122 D103 XD0131 Diode, 1SV214TPH4 Q215 XT0095 Transistor, 2SC4081T106R R25 RK3038 Chip R, MCR03EZHJ102 L101 QC0003 Chip L, MLF321606A-1R0M Q217 XT0095 Transistor, 2SC4081T106R R26 RK3056 Chip R, MCR03EZHJ473 L101 QC0090 Chip L, MLF321606A-4R7M Q218 XT0098 Transistor, 2SC4081T106R R28 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q219 XT0095 Transistor, 2SC4081T106R R29 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q219 XT0095 Transistor, 2SC4081T106R R29 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q220 XU0029 Transistor, 2SC4081T106R R29 RK3062 Chip R, MCR03EZHJ104 L104									
R24 RK3039 Chip R, MCR03EZHJ122 D103 XD0131 Diode, 1SV214TPH4 Q216 XT0095 Transistor, 2SC4081T106R R25 RK3038 Chip R, MCR03EZHJ102 L101 QC0003 Chip L, MLF321606A-1R0M Q216 XT0095 Transistor, 2SC4081T106R R26 RK3058 Chip R, MCR03EZHJ473 L102 QC0090 Chip L, MLF321606A-4R7M Q218 XT0088 Transistor, 2SC4081T106R R27 RK3067 Chip R, MCR03EZHJ274 L102 QC0090 Chip L, MLF321606A-4R7M Q219 XT0095 Transistor, 2SC4081T106R R28 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q219 XT0095 Transistor, 2SC4081T106R R29 RK3062 Chip R, MCR03EZHJ104 L104 QA0077 Chip L, ME521611E-100M Q220 XU0029 Transistor, 2SA1213YTE12L R29 RK3062 Chip R, MCR03EZHJ104 L105 QC0010 Chip L, ME521611E-100M Q221 XT0088 Transistor, 2SA1213YTE12L							1		
R25 RK3038 Chip R, MCR03EZHJ102 L101 QC0003 Chip L, MLF321606A-1R0M Q217 XT0095 Transistor, 2SC4081T106R R26 RK3058 Chip R, MCR03EZHJ473 L101 QC0003 Chip L, MLF321606A-4R7M Q218 XT0088 Transistor, 2SC4081T106R R27 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q219 XT0095 Transistor, 2SC4081T106R R28 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q220 XU0029 Transistor, DTC114YUT106 R29 RK3062 Chip R, MCR03EZHJ104 L104 QA0077 Chip L, MLF321611E-100M Q221 XT0088 Transistor, 2SA1213YTE12L	R24	RK3039		D103	XD0131	Diode, 1SV214TPH4			
R26 RK3058 Chip R, MCR03EZHJ473 L101 QC0003 Chip L, MLF321606A-1RVM Q218 XT0088 Transistor, 2SA1213YTE12L R27 RK3067 Chip R, MCR03EZHJ374 L102 QC0090 Chip L, MLF321606A-4R7M Q219 XT0095 Transistor, 2SC4081T106R R28 RK3066 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q220 XU0029 Transistor, DTC114YUT106 R29 RK3062 Chip R, MCR03EZHJ3104 L104 QA0077 Chip L, Case Coil QA0077 Q221 XT0088 Transistor, 2SA1213YTE12L R20 RV3062 Chip R, MCR03EZHJ304 L105 QC0010 Chip L, MLF321611E-100M Q221 XT0088 Transistor, 2SA1213YTE12L			Chip R, MCR03EZHJ102	1		n	1		
R27 RK3067 Chip R, MCR03EZHJ274 L102 QC0030 Chip L, MLF321611E-100M Q219 XT0095 Transistor, 2SC4081T106R R28 RK3056 Chip R, MCR03EZHJ333 L103 QC0010 Chip L, MLF321611E-100M Q220 XU0029 Transistor, DTC114YUT106 R29 RK3062 Chip R, MCR03EZHJ104 L104 QA0077 Chip L, Case Coil QA0077 Q221 XT0088 Transistor, 2SA1213YTE12L		i i		1		1			
R28 RK3056 Chip R, MCR03EZHJ333 L103 UCX0010 Chip L, MLF327611E-100M Q220 XU0029 Transistor, DTC114YUT106 R29 RK3062 Chip R, MCR03EZHJ104 L104 QA0077 Chip L, Case Coil QA0077 Q221 XT0088 Transistor, 2SA1213YTE12L									
1105 000010 Chip I MIESZIAITE 100M 0221 X10088 Transistor, ZSAIZISTIEIZL									Transistor, DTC114YUT106
I nou nnounce Unip n, munusezhijiu4 Elina Monara State Camera 1 noon				1					
	K30	MAJU62	Unip K, MUKUSEZHJIU4		400010	Grid Charlet OF 101 IE 100m	Q222	XU0027	Transistor,FMA7T98

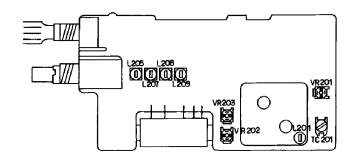
Ref.	Part Code	Part Name and Number	Ref.	Part Code	Part Name and Number	Ref.	Part Code	Part Name and Number
Q223	XU0027	Transistor, FMA7T98	C234	CU3035	Chip C, CM105W5R102K	C319	CU3047	Chip C. CM105W5R103K
0224	XU0027	Transistor, FWA7T98	C235	CU3047	Chip C, CM105W5R103K	C320	CU3047	Chip C, CM105W5R103K
Q225	XU0029	Transistor, DTC114YUT106	C236	CS0220	Chip C, TMC-M1C225MTRA	C321	CU3035	Chip C, CM105W5R102K
1			C237 C238	CS0216	Chip C, TMC-M1A106MTRB	C323	CU3047	Chip C, CM105W5R103K
D201	XD0066 XD0066	Diode, RLS135TE11 Diode, RLS135TE11	C239	CU3035 CU3016	Chip C, CM105W5R102K Chip C, CM105CH270K	C324 C325	CS0049 CS0053	Chip C, TMC1C105TRA Chip C, TMC0J476TRD
D202 D203	XD0066	Diode, RLS135TE11	C240	CS0049	Chip C, TMC1C105TRA	C326	CU3035	Chip C, CM105W5R102K
D204	XD0129	Diode, 1SS318TT11	C241	CU3016	Chip C, CM105CH270K	C327	CE0308	Chip C, ECEVOJA101P
D205	XD0132	Diode, 1SV215TPH4	C242	CU3006	ChiP C, CM105CH050C	C328	CU3013	Chip C, CM105CH150K
D206	XD0132	Diode, 1SV215TPH4	C243 C245	CU3047 CU3035	Chip C, CM105W5R103K	C329	CU3059	Chip C, CM105Y5V104Z25V
D207 D208	XD0129 XD0132	Diode, 1SS318TT11 Diode, 1SV215TPH4	C245	CU3003	Chip C, CM105W5R102K Chip C, CM105CH020C	C331 C332	CU3035 CU3035	Chip C, CM105W5R102K Chip C, CM105W5R102K
D208	XD0132 XD0132	Diode, 1SV215TPH4	C247	CU3003	Chip C, CM105CH020C	C334	CU3023	Chip C, CM105CH101K
D210	XD0132	Diode, 1SV215TPH4	C248	CU3047	Chip C, CM105W5R103K	C335	CU3023	Chip C, CM105CH101K
D211	XD0129	Diode, 1SS318TT11	C249	CU3015	Chip C, CM105CH220K	C336	CU3035	Chip C, CM105W5R102K
D212	XD0132	Diode, 1SV215TPH4	C250 C251	CU3023 CU3006	Chip C, CM105CH101K ChiP C, CM105CH050C	C337	CU3035 CU3023	Chip C, CM105W5R102K
D213 D214	XD0132 XD0129	Diode, 1SV215TPH4 Diode, 1SS318TT11	C252	CU3047	Chip C, CM105CH030C	C339	CU3023	Chip C, CM105CH101K Chip C, CM105CH101K
D215	XD0123	Diode, 1SV215TPH4	C253	CS0049	Chip C, TMC1C105TRA	C340	CU3059	Chip C, CM105Y5V104Z25V
D216	XD0134	Diode, RB450FT106	C254	CU3059	Chip C, CM105Y5V104Z25V	C341	CU3031	Chip C, CM105W5R471K
D217	XD0129	Diode, 1SS318TT11	C255 C256	CS0220 CU3059	Chip C, TMC-M1C225MTRA	C342	CU3035	Chip C, CM105W5R102K
D218 D219	XD0129 XD0129	Diode, 1SS318TT11 Diode, 1SS318TT11	C257	CU3059	Chip C, CM105Y5V104Z25V Chip C, CM105Y5V104Z25V	C343 C344	CU3047 CU3035	Chip C, CM105W5R103K Chip C, CM105W5R102K
D219	XD0129 XD0127	Diode, MA704WA-TX	C258	CU3011	Chip C, CM105CH100K	C345	CU3009	Chip C, CM105CH080C
D221	XD0136	Diode, DTZ5. 1ATT11	C259	CU3011	Chip C, CM105CH100K	C346	CU3035	Chip C, CM105W5R102K
D222	XD0110	Diode, 1N5551	C260	CU3002	Chip C, CM105CH010C	C347	CE0056	Chemical C, 16MV100SW
D223	XD0128	Diode, MA713-TX	C261 C262	CU3004 CU3002	Chip C, CM105CH030C Chip C, CM105CH010C	C348 C349	CU3035 CS0049	Chip C, CM105W5R102K
D224 D225	XD0129 XD0130	Diode, 1SS318TT11 Diode, DA204UT106	C263	CU3004	Chip C. CM105CH030C	C350	CU3035	Chip C, TMC1C105TRA Chip C, CM105W5R102K
D226	XD0130	Diode, MA716-TW	C264	CU3035	Chip C, CM105W5R102K	5555		GHIP O, GM FOOTON OZ.
D228	XD0129	Diode, 1SS318TT11	C265	CU3035	Chip C, CM105W5R102K	R201	RK3030	Chip R, MCR03EZHJ221
D229	XD0129	Diode, 1SS318TT11	C266	CS0063	Chip C, TMC1V104TRA	R202 R203	RK3074 RK3050	Chip R, MCR03EZHJ105 Chip R, MCR03EZHJ103
D230	XD0129	Diode, 1SS318TT11	C267 C268	CU3059 CU3039	Chip C, CM105Y5V104Z25V Chip C, CM105W5R222K	R204	RK3022	Chip R, MCR03EZHJ470
D231 D232	XD0137 XD0129	Diode, DTZ6. 2ATT11 Diode, 1SS318TT11	C269	CS0049	Chip C, TMC1C105TRA	R205	RK3050	Chip R, MCR03EZHJ103
DESE	7,00120	J1530, 1005107777	C270	CU3021	Chip C, CM105CH680K	R206	RK3074	Chip R, MCR03EZHJ105
L201	QK0063	Chip L, LKO. 5-3X3. 5TR	C271	CU3059	Chip C, CM105Y5V104Z25V	R207 R208	RK3050 RK3074	Chip R, MCR03EZHJ103 Chip R, MCR03EZHJ105
L202	QK0063	Chip L, LKO. 5-3X3. 5TR	C272 C273	CU3054 CU3029	Chip C, CM105W5R223K25V Chip C, CM105W5R331K	R210	RK3074	Chip R, MCR03EZHJ103
L203 L204	QK0063 QC0003	Chip L, LKO. 5-3X3. 5TR Chip L, MLF321606A1ROM	C274	CU3035	Chip C, CM105W5R331K	R211	RK3056	Chip R, MCR03EZHJ333
L205	QA0071	Chip L, QA0071	C275	CU3054	Chip C, CM105W5R223K25V	R212	RK3038	Chip R.MCR03EZHJ102
L206	QC0009	Chip L. MLF321606DR10M	C276	CU3056	Chip C, CM105Y5V473Z	R213	RK3038	Chip R, MCR03EZHJ102
L207	QA0071	Chip L, QA0071	C277	CU3054	Chip C, CM105W5R223K25V	R216 R217	RK3062 RK3050	Chip R, MCR03EZHJ104 Chip R, MCR03EZHJ103
L208 L209	QA0071 QA0071	Chip L, QA0071 Chip L, QA0071	C278 C279	CS0063 CS0049	Chip C, TMC1V104TRA	R218	RK3001	Chip R, MCRO3EZHJ000
L210	QC0009	Chip L, MLF321606DR10M	C280	CU3043	Chip C, CM105W5R472K	R219	RK3074	Chip R, MCR03EZHJ105
L211	QK0063	Chip L, LKO. 5-3X3. 5TR	C281	CU3023	Chip C, CM105CH101K	R220	RK3054	Chip R, MCR03EZHJ223
L212	QC0010	Chip L, MLF321611E100M	C282	CS0216	Chip C, TMC-M1A106MTRB	R221 R222	RK3054 RK3054	Chip R, MCR03EZHJ223 Chip R, MCR03EZHJ223
L213	QC0010	Chip L. MLF321611E100M	C285 C286	CU3011 CS0211	Chip C, CM105CH100K	R223	RK3050	Chip R, MCR03EZHJ103
C201	CU3017	Chip C, CM105CH330K	C287	CS0049	Chip C, TMC1C105TRA	R224	RK3050	Chip R, MCR03EZHJ103
C202	CU3006	ChiP C, CM105CH050C	C288	CU3047	Chip C, CM105W5R103K	R225	RK3050	Chip R, MCR03EZHJ103
C203	CU3014	Chip C, CM105CH180K	C289	CU3059	Chip C, CM105Y5V104Z25V	R226 R227	RK3034 RK3042	Chip R, MCR03EZHJ471 Chip R. MCR03EZHJ222
C204	CU3003	Chip C, CM105CH020C	C290 C291	CU3035 CU3035	Chip C, CM105W5R102K Chip C, CM105W5R102K	R228	RK3042	Chip R, MCRO3EZHJ000
C205 C206	CU3017 CU3047	Chip C, CM105CH330K Chip C, CM105W5R103K	C292	CU3023	Chip C, CM105CH101K	R229	RK3026	Chip R, MCR03EZHJ101
C208	CU3035	Chip C, CM105W5R102K	C293	CU3019	Chip C, CM105CH470K	R230	RK3046	Chip R, MCR03EZHJ472
C209	CU3035	Chip C, CM105W5R102K	C294	CU3035	Chip C, CM105W5R102K	R231	RK3052	Chip R, MCR03EZHJ153
C210	CU3018	Chip C, CM105CH390K	C295 C296	CU3059 CU3059	Chip C, CM105Y5V104Z25V Chip C, CM105Y5V104Z25V	R232 R233	RK3038 RK3038	Chip R, MCR03EZHJ102 Chip R, MCR03EZHJ102
C211	CU3047 CU3035	Chip C, CM105W5R103K Chip C, CM105W5R102K	C297	CU3021	Chip C, CM10575V104225V	R234	RK3059	Chip R, MCRO3EZHJ563
C212	CU3035	Chip C, CM105W5K102K	C298	CS0235	Chip C, TMC-MIV334MTRA	R235	RK3050	Chip R, MCR03EZHJ103
C214	CU3011	Chip C, CM105CH100K	C299	CU3035	Chip C, CM105W5R102K	R236	RK3034	Chip R, MCR03EZHJ471
C215	CU3018	Chip C, CM105CH390K	C300	CU3047 CU3047	Chip C, CM105W5R103K	R238 R239	RK3056 RK3058	Chip R, MCRO3EZHJ333 Chip R, MCRO3EZHJ473
C216	CU3011	Chip C, CM105CH100K	C301 C302	CS0049	Chip C, CM105W5R103K Chip C, TMC1C105TRA	R240	RK3070	Chip R, MCRO3EZHJ474
C217	CU3017 CU3016	Chip C, CM105CH330K Chip C, CM105CH270K	C303	CU3059	Chip C, CM105Y5V104Z25V	R241	RK3050	Chip R, MCR03EZHJ103
C219	CU3035	Chip C, CM105W5R102K	C304	CS0220	Chip C, TMC-M1C225MTRA	R242	RK3066	Chip R, MCRO3EZHJ224
C220	CU3003	Chip C, CM105CH020C	C305	CU3059	Chip C, CM105Y5V104Z25V	R243	RK3062	Chip R, MCR03EZHJ104
C221	CU3002	Chip C, CM105CH010C	C306 C307	CU3023 CU3044	Chip C, CM105CH101K	R244 R245	RK3056 RK3058	Chip R, MCR03EZHJ333 Chip R, MCR03EZHJ473
C222 C223	CU3047 CU3006	Chip C, CM105W5R103K ChiP C, CM105CH050C	C308	CU3059	Chip C, CM105W5R562K Chip C, CM105Y5V104Z25V	R246	RK3066	Chip R, MCR03EZHJ224
C224	CU3035	Chip C, CM105W5R102K	C309	CU3059	Chip C, CM105Y5V104Z25V	R247	RK3026	Chip R, MCR03EZHJ101
C225	CU3047	Chip C, CM105W5R103K	C310	CS0050	Chip C, TMC1A475TRB	R248	RK3042	Chip R, MCR03EZHJ222
C226	CU3059	Chip C, CM105Y5V104Z25V	C311	CE0308	Chip C, ECEVOJA101P	R249 R250	RK3056 RK3034	Chip R, MCR03EZHJ333 Chip R, MCR03EZHJ471
C227 C228	CU3047 CU3024	Chip C, CM105W5R103K Chip C, CM105CH121K	C312 C313	CU3035 CS0049	Chip C, CM105W5R102K Chip C, TMC1C105TRA	R251	RK3062	Chip R, MCRO3EZHJ471
C229	CU3024	Chip C, CM105CH121K	C314	CU3047	Chip C, CM105W5R103K	R252	RK3062	Chip R, MCR03EZHJ104
C230	CS0216	Chip C, TMC-M1A106MTRB	C315	CU3035	Chip C, CM105W5R102K	R253	RK3043	Chip R, MCR03EZHJ272
C231	CS0063	Chip C, TMC1V104TRA	C316	CU3054	Chip C, CM105W5R223K25V	R254 R255	RK3062 RK3046	Chip R, MCR03EZHJ104
C232 C233	CU3035 CU3015	Chip C, CM105W5R102K Chip C, CM105CH220K	C317	CU3059 CU3059	Chip C, CM105Y5V104Z25V Chip C, CM105Y5V104Z25V	11233	11113040	Chip R, MCR03EZHJ472
0233	003013	GIED OF OMITOORIEZON		330000	3.1p 0, 3.1101011042201			

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
R256	RK3058	Chip R, MCR03EZHJ473	R340	RK1107	Chip R, MCR18EZHJ000E		1	ĺ
R258	RK3001	Chip R, MCR03EZHJ000	R342	RK3060	Chip R, MCR03EZHJ683			
R259	RK3035	Chip R, MCR03EZHJ561	R343	RK3001	Chip R, MCR03EZHJ000			
R260	RK3042	Chip R, MCR03EZHJ222	T0201	CT0012	Trimor C CT7-10AW			
R261 R262	RK3001 RK3072	Chip R, MCR03EZHJ000 Chip R, MCR03EZHJ684	TC201	CT0012	Trimmer C,CTZ-10AW		ĺ	1
R263	RK3046	Chip R, MCR03EZHJ472	VR201	RH0064	VR, MVR32HXBRN103			
R264	RK3070	Chip R, MCR03EZHJ474	VR202	RH0061	VR. MVR32HXBRN472			
R265	RK3044	Chip R, MCR03EZHJ332	VR203	RH0064	VR, MVR32HXBRN103			ľ
R266	RK3026	Chip R, MCR03EZHJ101	VR204	RV0014	VR, RK09722115R1211			
R267 R268	RK3067 RK3050	Chip R, MCR03EZHJ274 Chip R, MCR03EZHJ103	X201	XQ0046	X'tal UM-5 23.505MHZ			
R269	RK3046	Chip R. MCR03EZHJ472	X202	XK0002	X'tal CDBM455C7			
R270	RK3058	Chip R, MCR03EZHJ473	X203	XQ0022	X'tal UM-1 12.8MHZ]]]]	j
R271	RK3054	Chip R, MCR03EZHJ223	F1 001	V00004	O CELL OF MARKE			
R272	RK3050	Chip R, MCR03EZHJ103	FL201	XC0004 XF0008	CeramicFilter, CFUM455E CeramicFilter, 23. 05MHZ UM-5			
R273 R274	RK3042 RK3026	Chip R, MCR03EZHJ222 Chip R, MCR03EZHJ101	FL202	AFUUUG	Ceramicritter, 25. Usumiz Um 5			
R275	RK3020	Chip R, MCR03EZHJ104	CN202	₩E0110	Connecter, 52030-1210			
R276	RK3046	Chip R, MCR03EZHJ472	CN203	UE0110	Connecter, 52030-1210			
R277	RK3051	Chip R, MCR03EZHJ123	11/004		1 1 1/501701 01 000			i
R279	RK3042	Chip R, MCR03EZHJ222	JK201	UJ0015 UJ0022	Jack, HEC1781-01-020			
R281 R282	RK3026	Chip R, MCR03EZHJ101 Chip R, MCR03EZHJ222	JK202 JK203	UJ0022 UJ0019	Jack, HSJ1102-01-540 Jack, HSJ1423-01-010			
R282	RK3042 RK3047	Chip R, MCRO3EZHJ222	3.1200					
R284	RK3026	Chip R, MCR03EZHJ101	RE201	UR0006	RE EC09P20-51			
R285	RK3026	Chip R, MCR03EZHJ151	1					
R286	RK3014	Chip R, MCR03EZHJ100		MRCK08AA	Lead, #08 RED]]	,
R287	RK3066	Chip R, MCRO3EZHJ224		MRCK04AA	Lead, #04 RED			
R288 R289	RK3042 RK3046	Chip R, MCRO3EZHJ222 Chip R, MCRO3EZHJ472		YZ0058	Solder-Plated Wire			
R290	RK3030	Chip R, MCR03EZHJ221		QB0003	Ferrite Beads		İ	
R291	RK0105	Chip R, MCR10EZHJ2R2E				 		
R292	RK3047	Chip R, MCR03EZHJ562		KEY	BOARD UNIT			
R293 R294	RK3053	Chip R, MCRO3EZHJ183 Chip R, MCRO3EZHJ332	PCB801	UP0210	DJP3 KEY BOARD		ļ	
R295	RK3044 RK3038	Chip R, MCR03EZHJ102	r CBOO!	Uruziu	DOF S RET BOARD		İ	
R296	RK3042	Chip R, MCR03EZHJ222	CN0801	UE0133	Connector DF9A-11P-1V(22)		1	
R297	RK3050	Chip R, MCR03EZHJ103						
R298	RK3056	Chip R, MCR03EZHJ333	R801	RK3024	Chip R, MCR03EZHJ680			
R299	RK3038	Chip R, MCR03EZHJ102	R802	RK3024	Chip R, MCR03EZHJ680		1	
R300 R301	RK3042 RK3038	Chip R, MCR03EZHJ222 Chip R, MCR03EZHJ102	D801	XL0016	Diode, SLM13MWT96B			
R302	RK3046	Chip R, MCR03EZHJ472	D802	XL0016	Diode, SLM13MWT96B			
R303	RK3034	Chip R, MCR03EZHJ471	D803	XL0016	Diode, SLM13MWT96B			
R304	RK3050	Chip R, MCR03EZHJ103	D804	XL0016	Diode, SLM13MWT96B			
R305	RK3043	Chip R, MCR03EZHJ272					İ	
R306 R307	RK3038	Chip R, MCRO3EZHJ102 Chip R, MCRO3EZHJ223		D	TMF UNIT	1		
R308	RK3054 RK3066	Chip R, MCR03EZHJ224	10601	XA0169	IC CM8880-2PEIT			
R309	RK3047	Chip R, MCR03EZHJ562	10001	74.0.00	TO GMOODU ZIETI			
R310	RK3034	Chip R, MCR03EZHJ471	Q0601	XU0021	Transistor FMC3 T98			
R311	RK3026	Chip R, MCR03EZHJ101		unc:				
R312 R313	RK3050	Chip R, MCR03EZHJ103 Chip R, MCR03EZHJ333	D0601	XD0129	Diode, 1SS318 TT11			
R314	RK3056 RK3050	Chip R, MCRO3EZHJ103	C601	CU3035	Chip C. CM105 W5R 102K			
R315	RK3050	Chip R, MCR03EZHJ103	C602	CU3035	Chip C, CM105 W5R 102K	[]	'	Ì
R316	RK3038	Chip R, MCR03EZHJ102	C603	CU3059	Chip C, CM105 Y5V 104Z			
R317	RK3038	Chip R, MCR03EZHJ102	C604	CS0050	Chip C, JMC 1A 475TRB			
R318	RK3026	Chip R, MCR03EZHJ151	C605	CU3059	Chip C, CM105 Y5V 104Z			
R319	RK3026	Chip R, MCR03EZHJ101	C606 C607	CU3047 CU3017	Chip C, CM105 W5R 103K Chip C, CM105 CH 330K			
R320	RK3074	Chip R, MCR03EZHJ105	C608	CU3017	Chip C, CM105 CH 330K			
R321	RK3038	Chip R, MCR03EZHJ102	C609	CU3047	Chip C, CM105 W5R 103K			
R322	RK3042	Chip R, MCR03EZHJ222	C610	CU3059	Chip C, CM105 Y5V 104Z			
R323 R324	RK3056	Chip R, MCR03EZHJ333 Chip R, MCR03EZHJ824		UDAGAG	DIE1 DINED			
R325	RK3073 RK3050	Chip R, MCRO3EZHJ103		UP0212	DJF1 DTMFBoard			
R326	RK3001	Chip R, MCR03EZHJ000	R601	RK3018	Chip R, MCR03 EZHT220]	
R327	RK3046	Chip R, MCR03EZHJ472	R602	RK3066	Chip R, MCR03 EZHT224			
R328	RK3038	Chip R, MCR03EZHJ102	R603	RK3066	Chip R, MCR03 EZHT224		ĺ	
R329 R330	RK3038	Chip R, MCRO3EZHJ102	R604	RK3062	Chip R, MCR03 EZHT104			
R331	RK3072 RK3038	Chip R, MCRO3EZHJ684 Chip R, MCRO3EZHJ102	R605	RK3059 RK3058	Chip R, MCR03 EZHT563			
R332	RK3038	Chip R, MCR03EZHJ102	R606 R607	RK3050	Chip R, MCRO3 EZHT473 Chip R, MCRO3 EZHT103			
R333	RK3050	Chip R. MCR03EZHJ103	R608	RK3038	Chip R, MCR03 EZHT103			
R334	RK3030	Chip R, MCR03EZHJ221	R609	RK3056	Chip R, MCR03 EZHT333			
R335 R336	RK1018	Chip R MCR18EZHJ101E	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V00001	WI. 1			
R336	RK3026 RK3050	Chip R, MCR03EZHJ101 Chip R, MCR03EZHJ103	X0601	XQ0021	X'tal DSMAT 3.58MHZ			
R338	RK3062	Chip R, MCR03EZHJ104		TT3008 YZ0042	Elastic Tube X'tal Cement G-17 1g			
R339	RK3062	Chip R, MCR03EZHJ104	CN601	UE0134	Connector, DF9A-13P-1V (22)			
L	ا ا							

■ ADJUSTMENT F1-T/S1-T

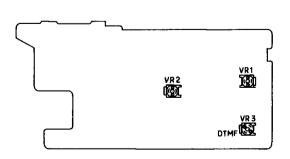
item	Adjustment method	Spec.
Standard frequency	Transmit at 146.03 on L.C.D. board, then adjust TC201 so that the frequency is 146.03MHz ± 50Hz.	146.03MHz±50Hz
	Adjusting point TC201	
2. Output power		514 - 6 444
1) High power	Transmit at 146.03MHz, then adjust VR202 so that the output power is 5.0W when operating power source at 13.8V.	5W±0.1W
	Adjusting point(s) VR202 main board	
2) Middle power	Transmit at 146.03MHz, then adjust VR203 so that the output power is 1.0W when operating power source at 13.8V.	1W±0.1W
	Adjusting point(s) VR203 main board	
3) Low power	Transmit at 146.03MHz, then verify that the output power is between 80mW and 200mW.	
3. Transmitting spurious	Transmit at 1144.03Hz, 146.03MHz and 147.99MHz, then verify the transmitting spurious is as follows when operating voltage is between 6V and 14V.	High Power under – 60dB
	High power under – 60dB Low power under – 50dB	Low Power under – 50dB
	Also verify no queer oscillation is occurring.	
Modulation MIC modulation adjustment	Transmit at 146.03MHz and input low frequency of 1kHz 50mV from MIC input terminal. Then adjust VR201 so that the modulation is 4.5kHz.	4.5kHz±0.1kHz
aajaaa, is	Adjusting point(s) VR201 main board	
2) DTMF deviation	Transmit at 146.03MHz and press the ten-key 1. Then adjust the VR3 so that the modulation is 3.1kHz.	3.1kHz ± 0.1kHz
	Adjusting point(s) VR3 CPU board	
Sub-audible tone modulation	Set the sub-audible tone at 88.5MHz, then adjust VR1 so that the frequency is 800Hz when transmitting at 146.03MHz.	800Hz±100Hz
	Adjusting point(s) VR1 CPU board	
5. Standard VCO voltage	At the receiving condition, adjust L104 so that the voltage of P/D is 0.7V with the frequency set at 146.03MHz.	0.8 ± 0.1V
	Adjusting point(s) VCO board L204	
	At the transmitting condition verify that the voltage of P/D is between 0.5V and 1.0V with the frequency set at 145.05MHz.	
6. AIR BAND	At the receiving frequency of 125.03MHz, input the signal of AM 1kHz 30% output $8dB_{\mu}$ (disconnection terminal) from SG. Then verify that the S/N is more than 10dB. And, receivable from 118.00MHz to 142.99MHz.	
7. VHF front-end adjusting	At the receiving frequency of 146.03MHz, adjust L205, L207, L208 and L209 so that the 12dB sind gets maximum sensitivity.	
	Adjusting point(s) L205, L207, L208, L209 main board	
8. S meter	At the receiving frequency of 146.03MHz input the signal of 20dB _µ from the transceiver tester. Then adjust VR2 so that the FU11 in S meter starts lighting.	
	Adjusting point(s) VR2 CPU board	

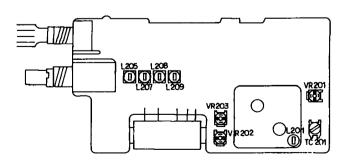




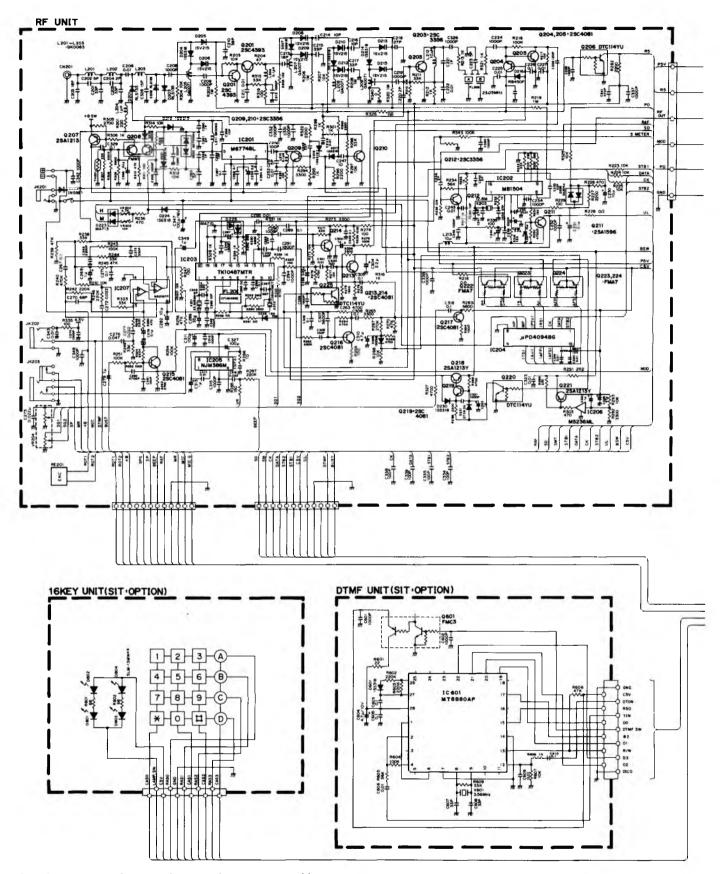
■ ADJUSTMENT F1-E/S1-E

Item	Adjustment method	Spec.
Standard frequency	Transmit at 145.05 on L.C.D. board, then adjust TC201 so that the frequency is 145.05MHz±50Hz.	145.05MHz ± 50Hz
	Adjusting point(s) TC201	
2. Output power		
1) High power	Transmit at 145.05MHz, then adjust VR202 so that the output power is 5.0W when operating power source at 13.8V.	5W±0.1W
	Adjusting point(s) VR202 main board	
2) Middle power	Transmit at 145.05MHz, then adjust VR203 so that the output power is 1.0W when operating power source at 13.8V.	1W±0.1W
	Adjusting point(s) VR203 main board	
3) Low power	Transmit at 145.05MHz, then verify that the output power is between 80mW and 200mW.	
3. Transmitting spurious	Transmit at 145.05MHz, 144.05MHz and 145.95MHz, then verify the transmitting spurious is as follows when operating voltage is between 6V and 14V.	High Power under – 60dB
	High power under – 60dB Low power under – 50dB	Low Power under – 50dB
	Also verify no queer oscillation is occurring.	
4. Modulation		. =
 MIC modulation adjustment 	Transmit at 145.05MHz and input low frequency of 1kHz 50mV from MIC input terminal. Then adjust VR201 so that the modulation is 4.5kHz.	4.5kHz±0.1kHz
	Adjusting point(s) VR201 main board	
2) DTMF deviation	Transmit at 145.05MHz and press the ten-key 1. Then adjust the VR3 so that the modulation is 3.1kHz.	3.1kHz ± 0.1kHz
	Adjusting point(s) VR3 CPU board	
3) Tone-burst modulation	Transmit at 145.05MHz, then adjust VR1 so that the modulation is 3.0kHz. Verify that the tone-burst is in the range of 1,750Hz ± 20Hz at this time.	3.0kHz±0.1kHz
	Adjusting point(s) VR1 CPU board	
5. Standard VCO voltage	At the receiving condition, adjust L104 so that the voltage of P/D is 0.7V with the frequency set at 145.05MHz.	0.7V ± 0.1V
	Adjusting point(s) VCO board L204	
	At the transmitting condition verify that the voltage of P/D is between 0.5V and 1.0V with the frequency set at 145.05MHz.	
6. AIR BAND	At the receiving frequency of 125.03MHz, input the signal of AM 1kHz 30% output $8dB_{\mu}$ (disconnection terminal) from SG. Then verify that the S/N is more than 10dB. And, receivable from 118.00MHz to 142.99MHz.	
7. VHF front-end adjusting	At the receiving frequency of 145.05MHz, adjust L205, L207, L208 and L209 so that the 12dB sind gets maximum sensitivity.	
	Adjusting point(s) L205, L207, L208, L209 main board	
8. S meter	At the receiving frequency of 145.95MHz input the signal of 20dBµ from the transceiver tester. Then adjust VR2 so that the FU11 in S meter starts lighting.	
	Adjusting point(s) VR2 CPU board	
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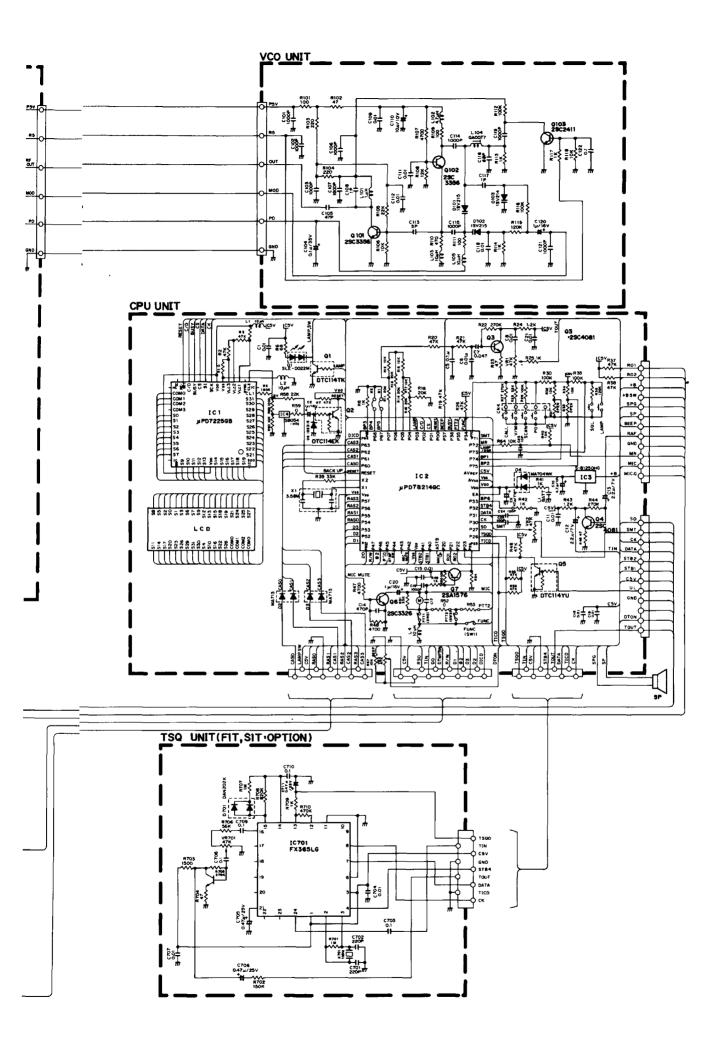




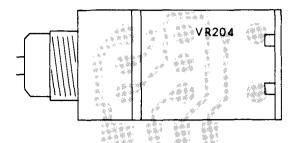
■SCHEMATIC DIAGRAM

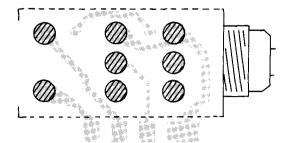


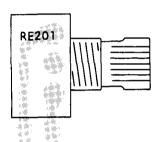
Specifications are subject to change without notice or obligation.

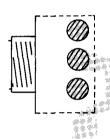


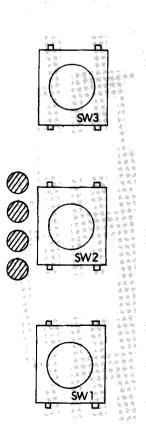
■ VR.RE.SW.PC BOARDS

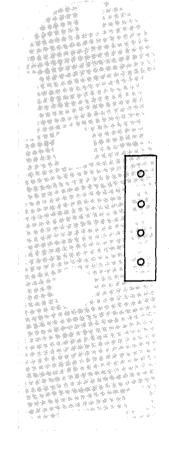




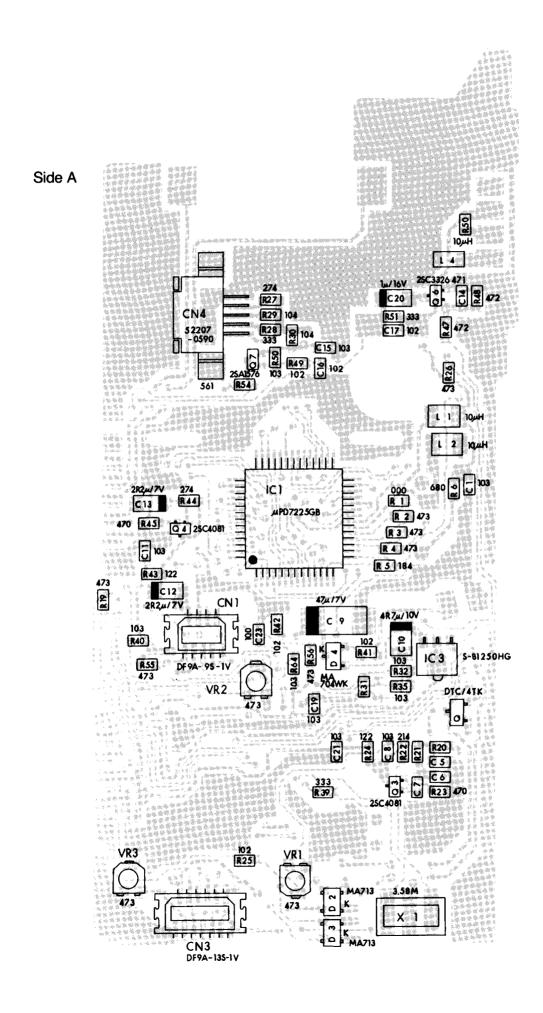


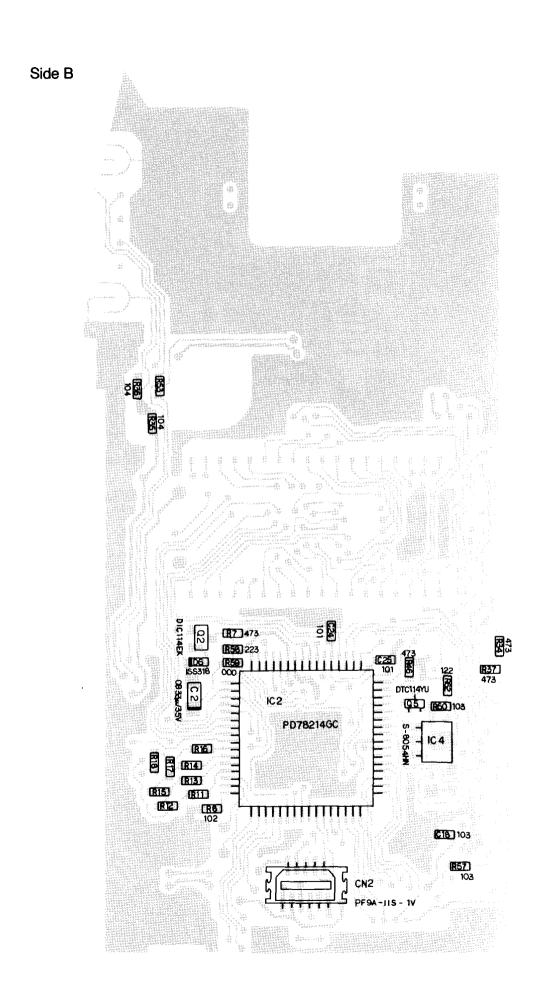




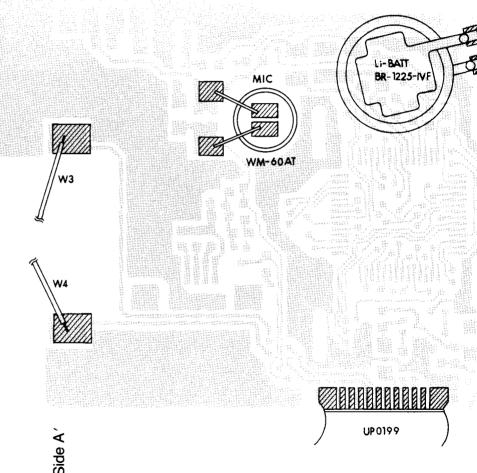


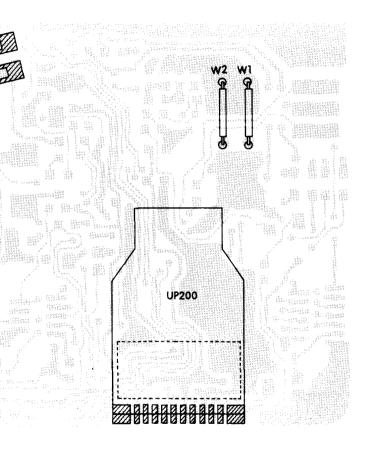
SW1.2.3 (SKHUAB)

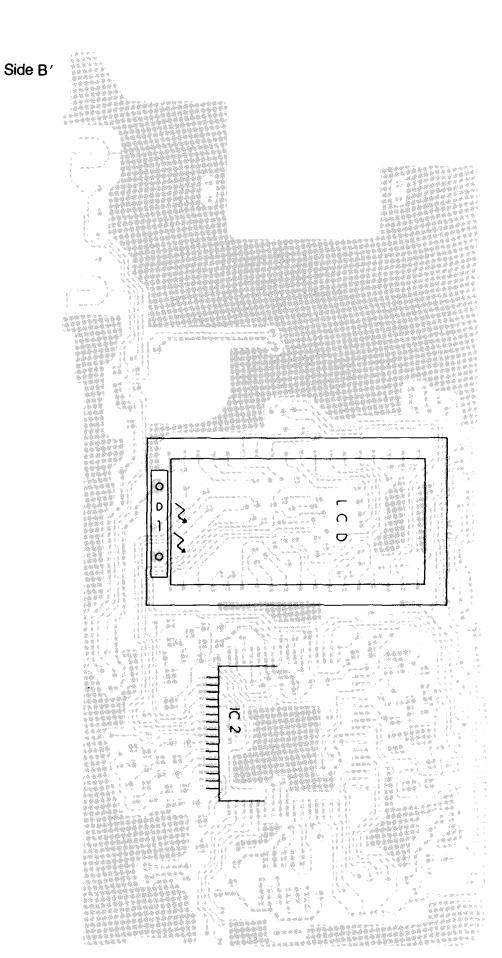




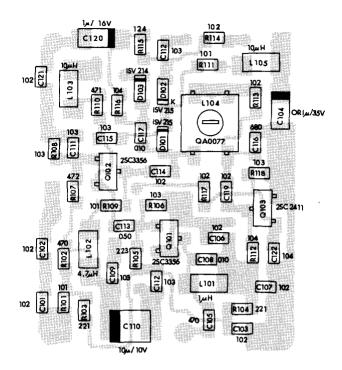
Li-BATT

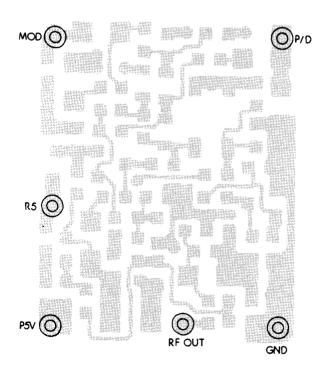




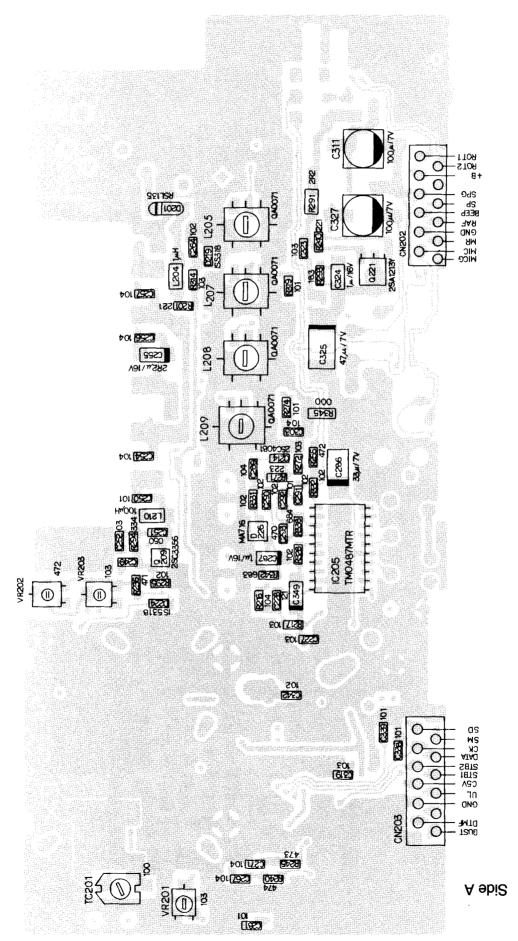


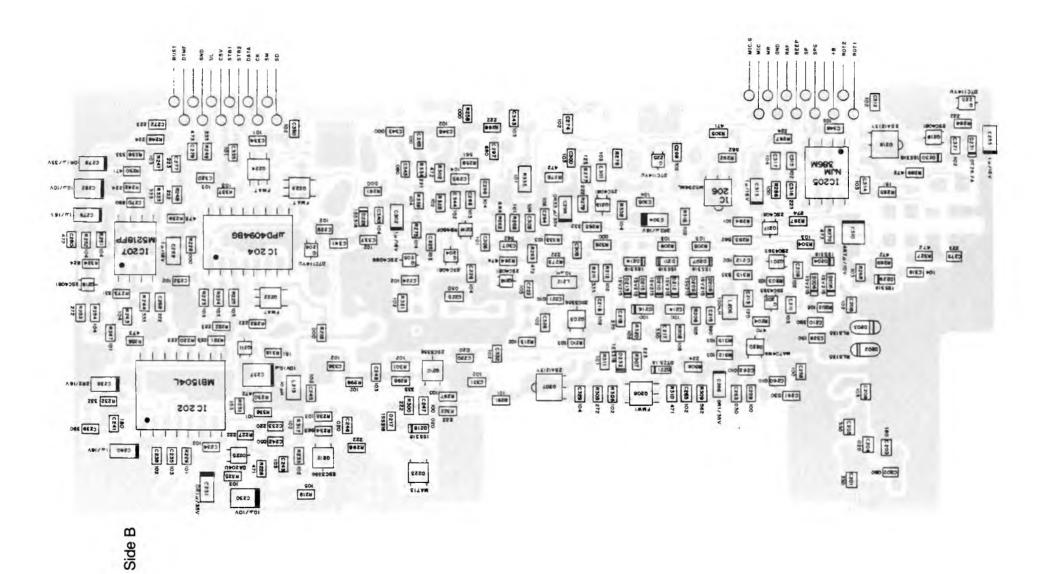
■VCO PC BOARD

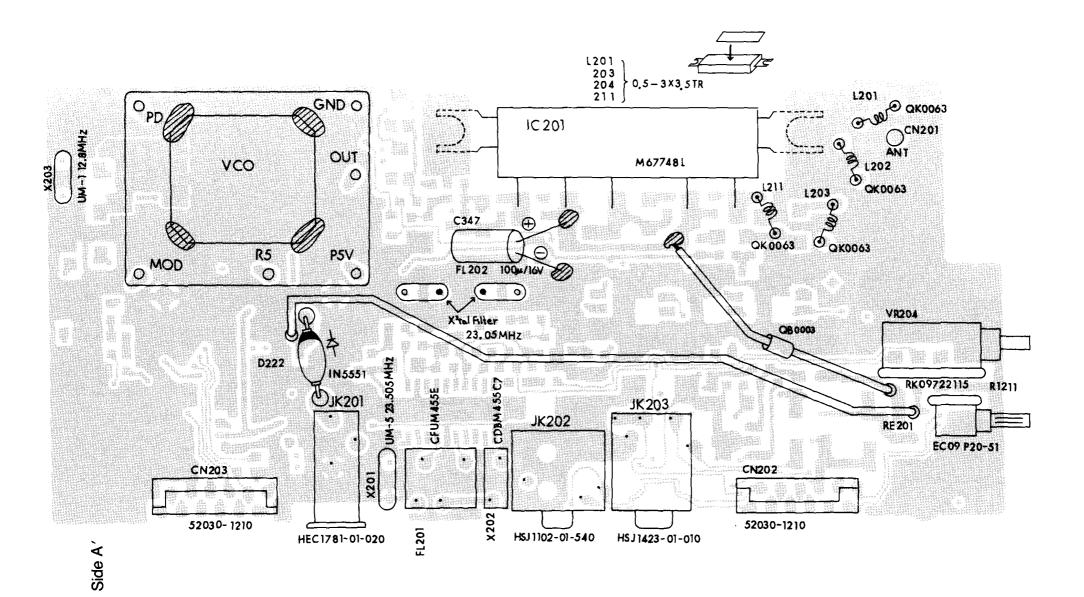


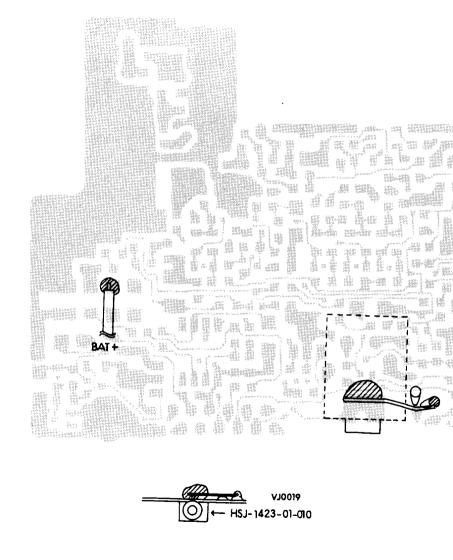


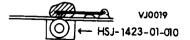
■ WAIN PC BOARD

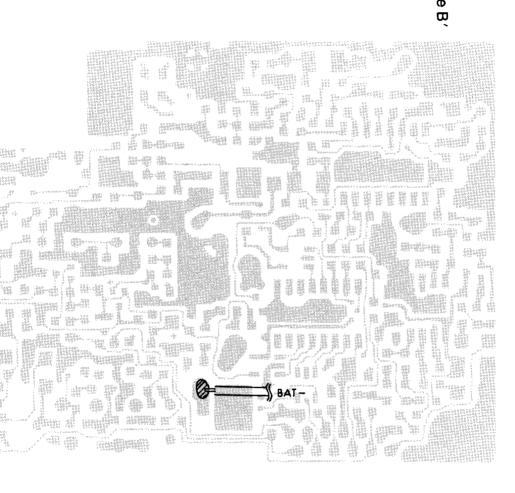






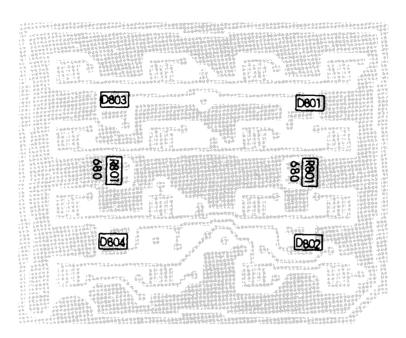




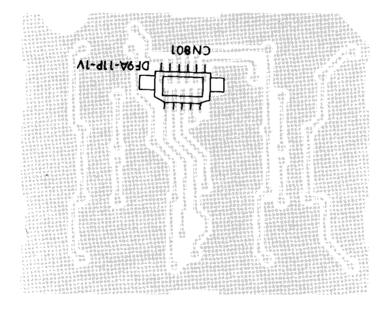


■KEY BOARD

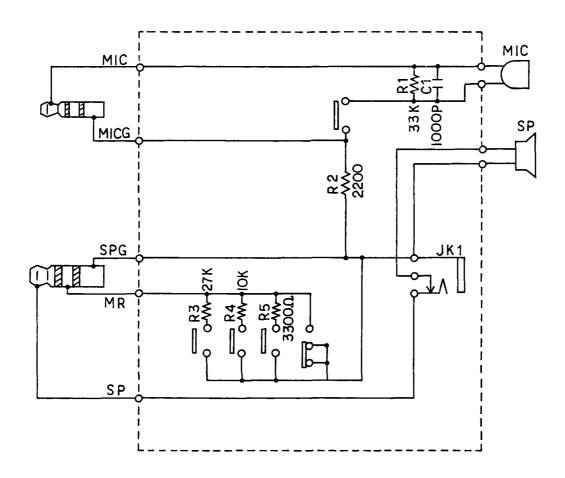
Side A



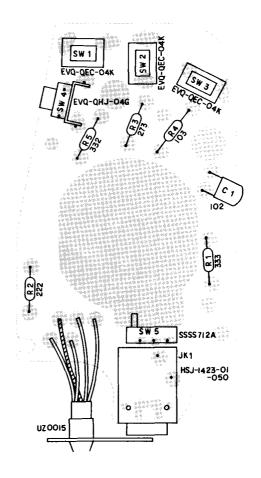
Side B



EMS-8 (REMOTE CONTROL SPEAKER/MICROPHONE)



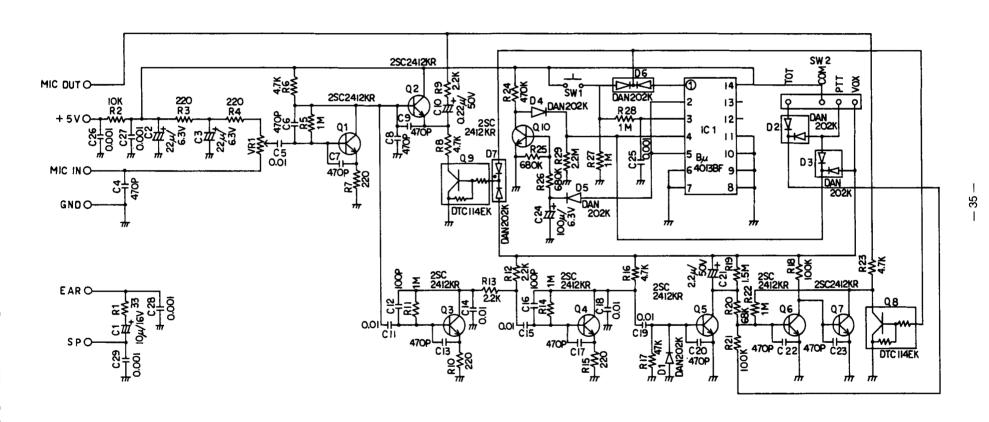
Ref. No.	Part Code	Part Name and Number
R	RD0039U	Chip R, 1/4W 222
R1	RD0059	Chip R, 1/4W 333
R2	RD0039	Chip R, 1/4W 222
R3	RD0057	Chip R, 1/4W 273
R4	RD0052	Chip R, 1/4W 103
R5	RD0042	Chip R, 1/4W 332
C1	CK0003	Ceramic C,50V 102Z
SW1	UU0007	Tact Switch, EVQ-QEC 04K
SW2	UU0007	Tact Switch, EVQ-QEC 04K
SW3	UU0007	Tact Switch, EVQ-QEC 04K
SW4	UU0009	Tact Switch, EVQ-QHJ 04G
SW5	US0018	Slide Switch, SSSS712A
	UP0211	EMS8 Board
JK1	UJ0016	Jack HSJ1423-01-050



EME-10K (HEADSET W/PTT VOX)

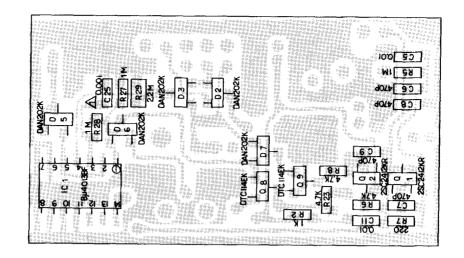
Ref. No.	Part Code	Part Name and Number
C1	CE0044	Chemical C, 1.6V 10 µF MS5
C2	CE0034	Chemical C, 6.3V 22 µF MS5
СЗ	CE0034	Chemical C, 6.3V 22 µF MS5
C4	CU3031	Chip C, CM105 W5R 471K 50VAT
C5	CU3052	Chip C. CM105 W5R 103K 25VAT
C6	CU3031	Chip C. CM105 W5R 471K 50VAT
C7	CU3031	Chip C. CM105 W5R 471K 50VAT
C8	CU3031	Chip C, CM105 W5R 471K 50VAT
C9	CU3031	Chip C, CM105 W5R 471K 50VAT
C10	CE0109	Chemical C. 50V 0.22 µF MS5
C11	CU3052	Chip C, CM105 W5R 103K 25VAT
C12	CU3023	Chip C, CM105 CH 101K 50VAT
C13	CU3031	Chip C. CM105 W5R 471K 50VAT
C14	CU3052	Chip C, CM105 W5R 103K 25VAT
C15	CU3052	Chip C. CM105 W5R 103K 25VAT
C16	CU3023	Chip C. CM105 CH 101K 50VAT
C17	CU3031	Chip C, CM105 W5R 471K 50VAT
C18	CU3052	Chip C, CM105 W5R 103K 25VAT
C19	CU3052	Chip C, CM105 W5R 103K 25VAT
C20	CU3031	Chip C. CM105 W5R 471K 50VAT
C21	CE0200	Chemical C.50V 2.2 µF UW
C22	CU3031	Chip C. CM105 W5R 471K 50VAT
C23	CU3031	Chip C, CM105 W5R 471K 50VAT
C24	CE0037	Chemical C. 6.3V 100 µF MS5
C25	CU3035	Chip C, CM105 W5R 102K 50VAT
C26	CU3035	Chip C. CM105 W5R 102K 50VAT
C27	CU3035	Chip C, CM105 W5R 102K 50VAT
C28	CU3035	Chip C, CM105 W5R 102K 50VAT
C29	CU3035	Chip C, CM105 W5R 102K 50VAT
D1	XD0040	Diode, DAN202K T96
D2	XD0040	Diode, DAN202K T96
D3	XD0040	Diode, DAN202K T96
D4	XD0040	Diode, DAN202K T96
D5	XD0040	Diode, DAN202K T96
D6	XD0040	Diode, DAN202K T96
D7	XD0040	Diode, DAN202K T96
Q1	XT0037	Transistor, 2SC2412K T96R
Q2	XT0037	Transistor, 2SC2412K T96R
Q3	XT0037	Transistor, 2SC2412K T96R
Q4	XT0037	Transistor, 2SC2412K T96R
Q5	XT0037	Transistor, 2SC2412K T96R
Q6	XT0037	Transistor, 2SC2412K T96R
Q7	XT0037	Transistor, 2SC2412K T96R

Ref. No.	Part Code	Part Name and Number
Q 8	XU0012	Digital Transistor, DTC114EKT96
Q9	XU0012	Digital Transistor, DTC114EKT96
Q10	XT0037	Transistor, 2SC2412K T96R
R1	RK3020	Chip R, MCRO3EZOJ 330
R2	RK3038	Chip R, MCR03EZ0J 102
R3	RK3030	Chip R, MCR03EZ0J 221
R4	RK3030	Chip R, MCR03EZ0J 221
R5	RK3074	Chip R. MCR03EZ0J 105
R6	RK3046	Chip R. MCR03EZ0J 472
R7	RK3030	Chip R. MCR03EZ0J 221
R8	RK3046	Chip R. MCRO3EZOJ 472
R9	RK3042	Chip R, MCR03EZ0J 222
R10	RK3030	Chip R, MCR03EZ0J 221
R11	RK3074	Chip R. MCR03EZ0J 105
R12	RK3042	Chip R. MCRO3EZOJ 222
R13	RK3042	Chip R, MCRO3EZOJ 222
R14	RK3074	Chip R, MCRO3EZOJ 105
R15	RK3030	Chip R. MCRO3EZOJ 221
R16	RK3046	Chip R. MCRO3EZOJ 472
R17	RK3058	Chip R, MCRO3EZOJ 473
R18	RK3062	Chip R. MCRO3EZOJ 104
R19	RK3076	Chip R, MCR03EZ0J 155
R20	RK3060	Chip R, MCR03EZ0J 683
R21	RK3062	Chip R, MCR03EZ0J 104
R22	RK3074	Chip R, MCR03EZ0J 105
R23	RK3046	Chip R, MCR03EZ0J 472
R24	RK3070	Chip R.MCR03EZ0J 474
R25	RK3072	Chip R, MCR03EZ0J 684
R26	RK3072	Chip R, MCR03EZ0J 684
R27	RK3074	Chip R, MCR03EZ0J 105
R28	RK3074	Chip R, MCR03EZ0J 105
R29	RK0090	Chip R, MCR10EZHJ 225
ICI	XA0123	IC, BU4013BF-T1
SW1	UU0009	Tact Switch, EVQ-QHJ-04G
SW2	US0016	Slide Switch, SSSS913L2
VR1	RH0062	Semi Valuable VR, EVM-LIG A00B23
	UP0187A	EME-10 Board

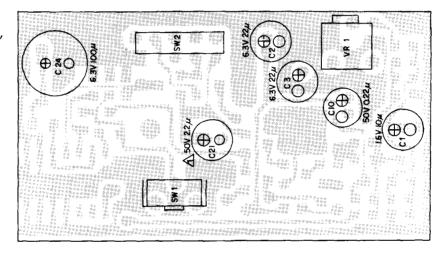


EME-10K PC BOARD

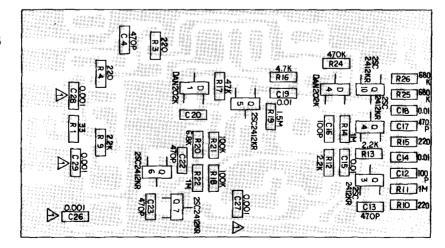
Side A



Side A'



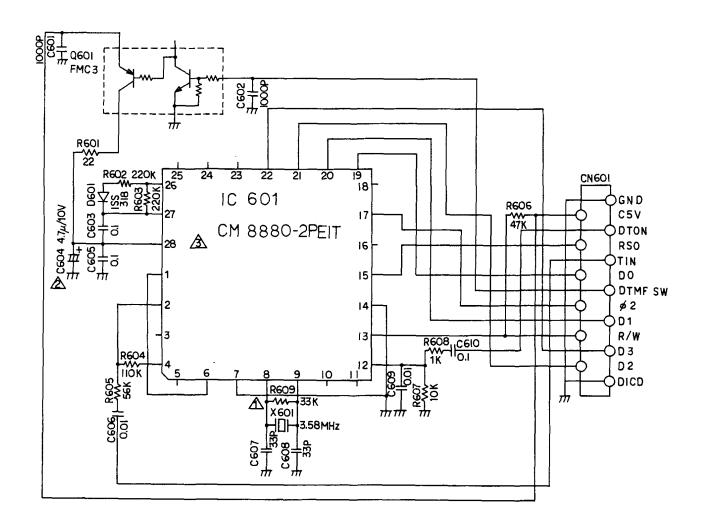
Side B



EJ-10U (DTMF ENC/DEC UNIT)

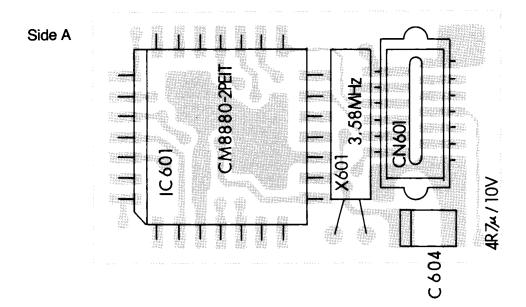
Ref. No.	Part Code	Part Name and Number
IC601	XA0169	IC.CM8880-2PEIT
Q0601	XU0021	Transistor,FMC3 T98
D0601	XD0129	Diode, ISS318 TT11
	UP0212	DTMF Board
X0601	XQ0021	X'talDSMAT 3.58MHZ
	TT3008	Elastic Tube
CN601	UE0134	Connector, DF9A-13P-1V(22)
	YZ0042	Cement G-17 1g
	YZ0082	Mending Tape, 12mmW
0001	0112025	OL: 0 04410E WED 100K
C601	CU3035	Chip C, CM105 W5R 102K
C602	CU3035	Chip C, CM105 W5R 102K
C603	CU3059	Chip C, CM105 Y5V 104Z
C604	CS0050	Chip C, TMC-1A 475MTR
C605	CU3059	Chip C, CM105 Y5V 104Z

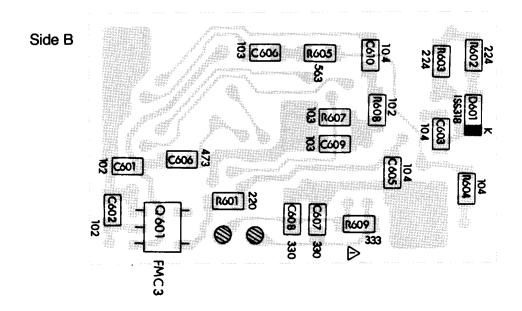
Ref. No.	Part Code	Part Name and Number
C606	CU3047	Chip C, CM105 W5R 103K
C607	CU3017	Chip C, CM105 CH 330K
C608	CU3017	Chip C, CM105 CH 330K
C609	CU3047	Chip C, CM105 W5R 103K
C610	CU3059	Chip C, CM105 Y5V 104Z
R601	RK3018	Chip R. MCR03 EZHJ220
R602	RK3066	Chip R. MCR03 EZHJ224
R603	RK3066	Chip R. MCR03 EZHJ224
R604	RK3062	Chip R. MCR03 EZHJ104
R605	RK3059	Chip R. MCR03 EZHJ563
R606	RK3058	Chip R, MCR03 EZHJ473
R607	RK3050	Chip R, MCR03 EZHJ103
R608	RK3038	Chip R, MCR03 EZHJ102
R609	RK3056	Chip R, MCR03 EZHJ333



DTMF PC BOARD

EJ-20U

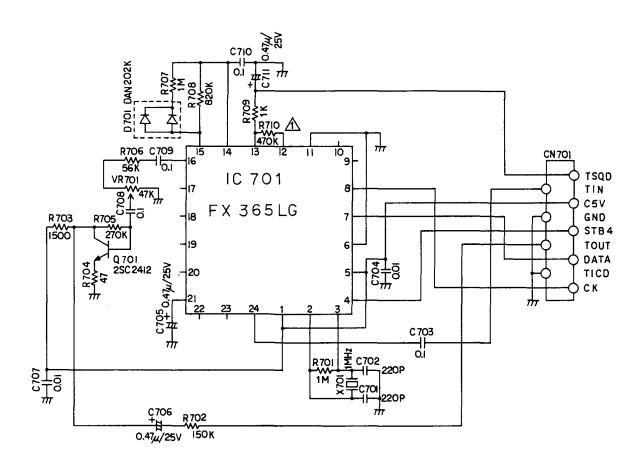




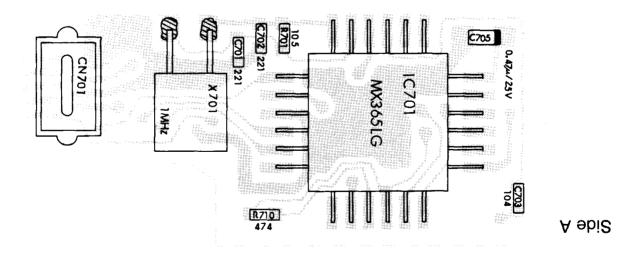
EJ-12U (TONE SQUELCH UNIT)

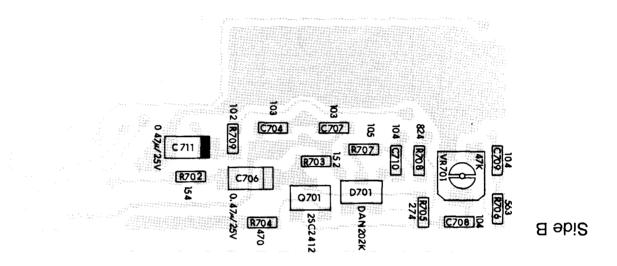
Ref. No.	Part Code	Part Name and Number					
IC701	XA0163	IC, FX365LG/TR					
Q701	XT0037	Transistor, 2SC2412K T96R					
D701	XD0040	Diode, DAN202K T96R					
VR701	RH0060	VR, MVR32 HXBRN473					
X701	XB0006	X'tal CSB1000J221					
CN701	UE0132	Connector, DF9A-9P-1V(22)					
C701 C702 C703 C704 C705	CU3060 CU3060 CU3059 CU3047 CS0060	Chip C, CM105CH221K Chip C, CM105CH221K Chip C, CM105Y5V104Z Chip C, CM105W5R103K Chip C, TMC1E474TR					

Ref. No. Part Code		Part Name and Number				
706	CS0060	Chip C, TMC1E474TR				
2707	CU3047	Chip C, CM105W5R103K				
2708	CU3059	Chip C, CM105Y5V104Z				
709	CU3059	Chip C, CM105Y5V104Z				
710	CU3059	Chip C, CM105Y5V104Z				
711	CS0060	Chip C, TMC1E474TR				
701	RK3074	Chip R, MCR03EZHJ105				
702	RK3064	Chip R, MCR03EZHJ154				
703	RK3036	Chip R, MCR03EZHJ152				
704	RK3022	Chip R, MCR03EZHJ470				
705	RK3067	Chip R, MCR03EZHJ274				
706	RK3059	Chip R, MCR03EZHJ563				
707	RK3074	Chip R, MCR03EZHJ105				
708	RK3073	Chip R, MCR03EZHJ824				
709	RK3038	Chip R, MCR03EZHJ102				
710	RK3070	Chip R, MCR03EZHJ474				



TONE SQUELCH UNIT PC BOARD





EDC-34 (QUICK CHARGER 120V)

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
₹1		Registor. 0. 2W 4.7KΩ	R51		Registor, 0.2W 3.3KΩ	Q12		Transistor, NPN 40V 100mA
2		Registor, 0. 2W 1. 5KΩ	R52		Registor, 0. 2W 10KΩ	Q13	1	Transistor, PNP 40V 100mA
3		Registor, 0.2W $10K\Omega$	""		16913(01, V. 2# 101\\ 2	Q14		Transistor, NPN 40V 100mA
4		Registor, 0.2W 6.8K Ω	C1		Ceramic Condencer,50V 1 uF	Q15		Transistor, PNP 40V 100mA
5		Registor, 1W 0.1Ω	C2		Electric Condencer, 35V 470 u F	016		Transistor, PNP 40V 100mA
6		Registor, 1W 1.2K Ω	C3		Film Condencer, 50V 821 µF	u i i		Transfer of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st
7		Registor, 0.2W 680Ω	C4			ICI	1	Regulator.
3		Registor, 0.2W 100Ω	C5		Ceramic Condencer, 50V101pF	IC2	1	Regulator,
}		Registor, 0.2W 1.5 K Ω			Electric Condencer, 35V 220µ F	IC3		Regulator,
10		-3	C6		Ceramic Condencer, 50V 104pF	IC4		Regulator,
11			C7		Ceramic Condencer, 50V 101pF			TC
		Registor, 0.2W 3.3KΩ	C8		Electric Condencer, 16V 100 µ F	IC5		CPU
12	1	Registor, 0.2W 220Ω	C9	1	Electric Condencer,35V 220µF	IC6		CPU
13		Registor, 0. 2W 100Ω	C10		Ceramic Condencer, 50V 1µF	\ v.		0
14	i	Registor, 0.2W 220Ω	C12		Ceramic Condencer, 50V 470pF	X1]	Oscillater, 2. OMHz
15		Registor, 0.2W 130Ω	C13		Ceramic Condencer, 50V 470pF	1	1	0 :1 04 100 11
16		Registor, 1W 680Ω				LI		Coil, 2A 180 µ H
17		Registor, 0.2W 12Ω	D1		Diode, 40V 2. 5A	L2		Coil, 1A 200 µ H
18		Registor, 0.2W 12Ω	D2		Diode, 40V 2. 5A	L3		Ferrite Beads
19	1 1	Registor, 1W 0.22Ω	D3		Diode, 40V 100mA	İ		
20	1 1	Registor, 0.2W 10KΩ	D4		Diode, 40V 100mA	LED1		LED
21		Registor, 0.5W 2.7KΩ	D5		Diode, 40V 2. 5A	LED2		LED
22		Registor, 0.5W 2.7KΩ	D6	1	Diode, 40V. 100mA	_		LED, Spacer
23	1	Registor, 0.2W 10KΩ	D7	1	Diode, 40V 100mA			, _, _,
24		Registor, 0.2W 10KΩ	D8		Diode, 40V 100mA	CN1		Jack
25		Registor, 0.2W 33KΩ	D9		Diode, 40V 100mA	CN2	i l	Jack
26			D10		Diode, 100V 2A	CN3		Terminal
27		Registor, 0.2W 33KΩ	D11		Diode, 40V 100mA	CN4		Terminal
28		Registor, 0.2W 39KΩ	D12		Diode, 40V 100mA	CN5		Terminal
29		Registor, 0.2W 47KΩ	D13		Diode, 40V 100mA	CN6		Terminal
30		Registor, 0.2W 22KΩ	D14		Diode, 40V 100mA	"""	1	i di minai
31	1	Registor, 0.2W 10KΩ	D15		Diode, 40V 100mA	F1		Fuse, 3, 15A 125VULCSA
32	1	Registor, 0.2W 3.3KΩ	D16	1	Diode, 100V 2A	' '		1 430, 0. 1011 1201020011
33		Registor, 0.2W 10KΩ	D17		Diode, 40V 100mA	JP1		Cable, ⊕0.6 ×10mm
4	j	Registor, 0.2W 10KΩ	D18	1	Diode, 40V 2A	JP2		Cable. Φ 0.6 \times 10mm
35		Registor, 0.2W 2.7KΩ	D19	·	Diode, 40V 100mA	JP3	1	Cable, Φ 0.6 \times 15mm
36		Registor, 0.2W 5.6KΩ			prode, 407 Tourn	JP4		Cable, Φ 0.6 \times 7.5mm
37		Registor, 0.2W 3.3KΩ	11			JP5		Cable. Φ 0.6 \times 5mm
38		Registor, 0. 2W 3. 3KΩ	Z1		Zenner Diode, 400mW 9V	JP6		Cable, 00.6 × 12.5mm
39		Registor, 0.2W $1M\Omega$	'		Zermer Diode, 400mm 34	JP7		- · · · · · · · · · · · · · · · · ·
40		Registor, 0.2W 1.5K Ω	Q1		Transistor. PNP 40V 100mA	JP8		Cable, Φ0.6 ×10mm
41		Registor, 0.2W 47KΩ	02		Transistor, PNP 40V 100mA	JP9	1	Cable, Φ0.6 ×10mm
12		Registor, 0.2W $10K\Omega$	03		Transistor, NPN 40V 100mA	JP9 JP10		Cable, Φ 0.6 \times 5mm
13	1 1	Registor, 0.2W 10KΩ	Q4		•			Cable, Φ 0.6 \times 5mm
14		Registor. 0. 2W 2. 7KΩ	05		Transistor, NPN 80V 3A	JP11		Cable, Φ 0.6 \times 5mm
15		Registor, 0.2W $5.6K\Omega$	06		Transistor, PNP 40V 100mA	JP12		Cable, Φ 0.6 \times 10mm
46			1 7 7 7		Transistor, PNP 40V 100mA	JP13		Cable, Φ0.6 ×12.5mm
10 17	1 1	Registor, 0.2W 2.7KΩ	07		Transistor, PNP 60V 5A	JP14		Cable, Φ 0.6 \times 10mm
47 48		Registor, 0.2W 5.6KΩ	08		Transistor, NPN 40V 100mA	JP15		Cable, Φ 0.6 \times 7.5mm
		Registor, 0.2W 3.3KQ	Q9		Transistor, NPN 40V 100mA	JP16		Cable, ⊕0.6 ×5mm
49	1	Registor, 0.2W 3.3KΩ	010		Transistor, NPN 40V 100mA	JP17		Cable, AWG24 \times 20mm
50	1	Registor, 0.2W 3.3KΩ	Q11		Transistor, PNP 40V 100mA	1		

EDC-35 (QUICK CHARGER 220V)

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
R1		Registor, 0.2W 4.7KΩ	R51		Registor, 0.2W 3.3KΩ	Q12		Transistor, NPN 40V 100mA
R2		Registor. 0.2W 1.5KΩ	R52		Registor, 0.2W 10KΩ	Q13		Transistor, PNP 40V 100mA
R3		Registor 0.2W 10KΩ	{			014	1	Transistor. NPN 40V 100mA
R4	1 .	Registor, 0.2W 6.8KΩ	l C1		Ceramic Condencer, 50V 1 uF	Q15		Transistor, PNP 40V 100mA
R5		Registor, 1W 0.1Ω	C2		Electric Condencer, 35V 470µF	Q16	1 1	Transistor, PNP 40V 100mA
R6		Registor, 1W 1.2KΩ	C3		Film Condencer, 50V 821 µF	"'"	i i	
R7		Registor, 0. 2W 680Ω	C4		Ceramic Condencer, 50V 101pF	ICI	i I	Regulator.
R8		Registor, 0. 2W 100Ω	C5		Electric Condencer, 35V 220µF	IC2		Regulator.
R9		Registor. 0. 2W 1.5KQ	C6		Ceramic Condencer, 50V 104pF	102		Regulator.
R10	1	Registor, 0. 2W 27KΩ	C6		•	IC4		Regulator.
R11	1	Registor, 0. 2W 3. 3KΩ	1		Ceramic Condencer, 50V 101pF	1C5		IC
R12	1	Registor, 0.2W 220Ω	C8		Electric Condencer, 16V 100 µF	106		CPU
R13	1	Registor, 0.2W 100Ω	C9		Electric Condencer, 35V 220µF	100		Cru
R14	1 1	Registor, 0.2W 220Ω	C10		Ceramic Condencer, 50V 1µF	v.		0:11-4 2 000-
R15	1	Registor, 0.2W 130 Ω	C12	1	Ceramic Condencer, 50V 470pF	X1		Oscillater, 2. OMHz
R16	1 1	Registor, 1W 680Ω	C13		Ceramic Condencer, 50V 470pF	١.,		0-11 04 100
R17		Registor, 0.2W 12Ω	11			LI		Coil, 2A 180 µ H
R18			D1		Diode, 40V 2. 5A	L2		Coil, 1A 200 µ H
R19	1		D2		Diode, 40V 2.5A	L3	-	Ferrite Beads
		Registor, 1W 0.22Ω	D3		Diode, 40V 100mA			
R20		Registor, 0.2W 10KΩ	D4		Diode, 40V 100mA	LED1		LED
R21		Registor, 0.5W 2.7KΩ	D5		Diode, 40V 2.5A	LED2]	LED
R22		Registor, 0.5W 2.7KΩ	D6		Diode, 40V 100mA		1 1	LED, Spacer
R23		Registor, 0.2W 10KΩ	D7		Diode, 40V 100mA			
R24		Registor, 0.2W $10K\Omega$	D8		Diode, 40V 100mA	CN1		Jack
R25		Registor, 0.2W 33KΩ	D9	1 1	Diode, 40V 100mA	CN2		Jack
R26			D10	1	Diode, 100V 2A	CN3	1 1	Terminal
R27		Registor, 0.2W 33KΩ	D11		Diode, 40V 100mA	CN4		Terminal
R28		Registor, 0.2W 39KΩ	D12		Diode, 40V 100mA	CN5		Terminal
R29	1	Registor, 0.2W 47KΩ	D13]	Diode, 40V 100mA	CN6		Terminal
R30	1 :	Registor, 0.2W 22KΩ	D14	1	Diode, 40V 100mA	1	[[
R31	l	Registor, 0.2W 10KΩ	D15		Diode, 40V 100mA	F1		Fuse, 3, 15A 125VULCSA
R32		Registor, 0.2W 3.3KΩ	D16		Diode, 100V 2A			
R33	l i	Registor, 0.2W 10KΩ	D17		Diode, 40V 100mA	JP1		Cable, Φ0.6 ×10mm
R34		Registor, 0.2W 10KΩ	D18		Diode, 40V 2A	JP2	1 1	Cable, Φ 0.6 \times 10mm
R35	-	Registor, 0.2W 2.7KΩ	D19	i 1	Diode, 40V 100mA	JP3	' I	Cable, Φ0.6 ×15mm
R36		Registor, 0.2W 5.6KΩ				JP4		Cable. Φ0.6 ×7.5mm
R37		Registor, 0.2W 3.3KΩ	11		1	JP5		Cable. Φ 0.6 \times 5mm
R38		Registor, 0.2W 3.3KΩ	z1		Zenner Diode, 400mW 9V	JP6		Cable, 00.6 × 12.5mm
R39		Registor, 0.2W 1MΩ	- '		Lornier Diode, womm at	JP7		Cable, 00.6 × 10mm
R40		Registor, 0.2W 1.5KΩ	Q1		Transistor, PNP 40V 100mA	JP8		Cable, 00.6 × 10mm
R41	1	Registor, 0. 2W 47KΩ	02		Transistor, PNP 40V 100mA	JP9		Cable, Φ 0.6 \times 5mm
R42		Registor, 0. 2W 10KΩ	03		Transistor, NPN 40V 100mA	JP10		Cable, Φ 0.6 \times 5mm
R43		Registor, 0. 2W 10KQ	04		Transistor, NPN 80V 3A	JP11		Cable, Φ 0.6 \times 5mm
R44		Registor, 0. 2W 2. 7KΩ	Q5			JP12		
R45		Registor, 0.2W 5.6K Ω	1 1		Transistor, PNP 40V 100mA	JP13		Cable, Φ0.6 ×10mm
R46		Registor, 0.2W 2.7KΩ	Q6		Transistor, PNP 40V 100mA	JP13		Cable, 00.6 ×12.5mm
R47	1	Registor, 0.2W 5.6KΩ	Q7		Transistor, PNP 60V 5A	1		Cable, Φ0.6 ×10mm
R48	1 İ	Registor, 0.2W 3.3KΩ	Q8		Transistor, NPN 40V 100mA	JP15		Cable, Φ0.6 ×7.5mm
R49	1	- '	09		Transistor, NPN 40V 100mA	JP16		Cable, Φ0.6 ×5mm
R50		Registor, 0.2W 3.3KQ	Q10		Transistor, NPN 40V 100mA	JP17		Cable, AWG24 × 20mm
NOU	1	Registor, 0.2₩ 3.3KΩ	Q11	1	Transistor, PNP 40V 100mA	i		

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